

The Trade Wind Zone Oceanography Pilot Study Part III: Townsend Cromwell Cruises 8, 9, and 10 September to November 1964

By Robert L. Charnell, David W. K. Au,
and Gunter R. Seckel



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FISH AND WILDLIFE SERVICE
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ABSTRACT

A standard grid of oceanographic stations in an area bounded by lat. 10° and 26° N., and long. 148° and 157° W., was occupied at monthly intervals between February 1964 and June 1965. For the third set of three cruises, Townsend Cromwell cruises 8, 9, and 10, September to November 1964, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,200 m. for cruises 8 and 9 and 1,000 m. for cruise 10. Methods and procedures as well as the limitations of the data are discussed.

INTRODUCTION

This is the third of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N. and long. 148° and 157° W.

The complete set of observations represents a three-dimensional time-sequence distribution of properties (temperature, salinity....) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal

changes in the processes of net heat and water exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for the 8th, 9th, and 10th cruises in the series. (Townsend Cromwell cruise 7 was a trawling cruise, not part of this series, and is not reported here.) Figure 1 shows the cruise track for the three cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

All cruises were made by the R/V Townsend Cromwell. Cruises 8 and 10 were commanded by Captain Robert E. K. D. Lee, with officers Jan Liefing and Pete Andrich; cruise 9 was commanded by Acting Master Jan Liefing, with Acting First Officer Pete Andrich. The scientific parties were composed of the following:

Townsend Cromwell, cruise 8:
September 1 to 20, 1964

David W. K. Au - HL - Field Party Chief
Claude E. Allen - HL

Note.--Robert L. Charnell, Oceanographer, presently with Hazelton Nuclear Science Corp., Palo Alto, California 94303, formerly with Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii; David W. K. Au, Physical Science Technician and Gunter R. Seckel, Oceanographer, Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812.

Theodore K. Hirota - HL
Lloyd T. Watarai - HL
George F. Heimerdinger - National
Oceanographic Data Center
Roger B. Clapp - Smithsonian Institution
Dayle N. Husted - Smithsonian Institution

Townsend Cromwell, cruise 9:

October 1 to 20, 1964

Robert L. Charnell - HL - Field Party Chief
Arthur M. Bauckham, Jr. - HL
Robert M. Moncrief - HL
Lloyd T. Watarai - HL
Paul LaViolette - U.S. Naval Oceanographic
Office

Dayle N. Husted - Smithsonian Institution
Warren King - Smithsonian Institution

Townsend Cromwell, cruise 10:

November 4 to 24, 1964

Everet C. Jones - HL - Field Party Chief
Claude E. Allen - HL
Arthur M. Bauckham, Jr. - HL
Robert M. Moncrief - HL
R. J. Grishow - U.S. Naval Oceanographic
Office
Dayle N. Husted - Smithsonian Institution
Warren King - Smithsonian Institution

OBSERVATIONS^{1/}

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 2 and 4, 17 and 19, and 23 and 25.

To supplement the physical oceanographic data presented in this report, additional information of the following types was obtained.

Biological

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m. net. Flyingfish which stranded themselves on deck were collected daily. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution.

Meteorological

Rain measurements as well as standard weather observations were taken four times daily. Radiation from sun and sky was measured and recorded daily with an Eppley^{2/} pyranometer. These observations were supplemented by daily color photographs of clouds.

Current

Ten plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. An additional 10 cards were released at hourly intervals during the first and last 12 hours of cruise 9 and during the first 12 and last 9 hours of cruise 10.

PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.02 ‰, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determinations was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic PO₄-P was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to $\pm 0.02^\circ\text{C}$. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ± 10 m. down to 1,000 m. and within ± 1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951).

^{1/}All data not presented in this report are on file at the Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812

^{2/}Trade names referred to in this publication do not imply endorsement of commercial products.

The computer also was used to interpolate all properties at standard depths by means of a subroutine furnished by the University of Washington Oceanography Department and based on the interpolation method outlined by Rattray (1962).

In the region of study, a sharp thermocline generally separates a surface mixed layer from the subsurface waters. Only infrequently do Nansen casts adequately define this configuration, with the result that the interpolation program provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. The root mean square value computed from the above differences was less than 0.2° C. Except for cruise 10 the bucket salinity values were usually larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about 0.03 ‰ and the root mean square value was within 0.15 ‰ for each cruise.

PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 8, 9, and 10, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate, respectively; the next two columns contain cal-

culated sigma-t and specific volume anomaly for the observed data. The next three columns present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections along long. 148° W., 151° W., 154° W., and 157° W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 7A, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 8, figures 8 through 13 for cruise 9, and figures 14 through 19 for cruise 10.

The surface temperature distributions, based on bucket temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 8, 9, and 10, respectively.

The surface salinity distributions, based on bucket salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 8, 9, and 10, respectively.

The dynamic topography, relative to 1,200 m. for cruises 8 and 9 and 1,000 m. for cruise 10, is shown in figures 26, 27, and 28, respectively.

ACKNOWLEDGMENTS

The data for these cruises were processed by HL personnel under the direction of Mary Lynne Godfrey. Betty Ann L. Keala did the computer programming.

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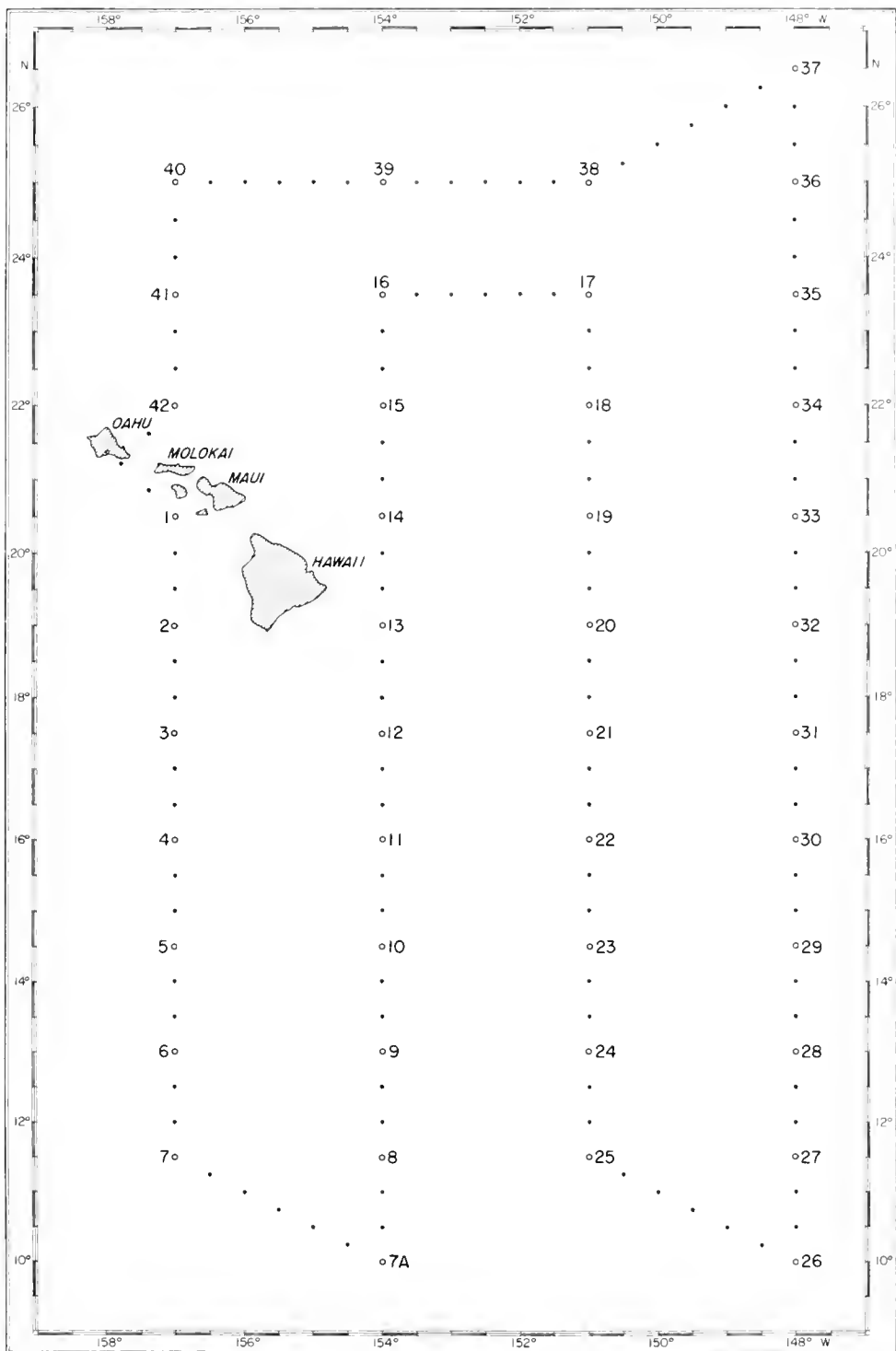


Figure 1.--Track chart for Townsend Cromwell cruises 8, 9, and 10. The large, numbered dots indicate the locations at which both hydrographic and BT (bathymograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

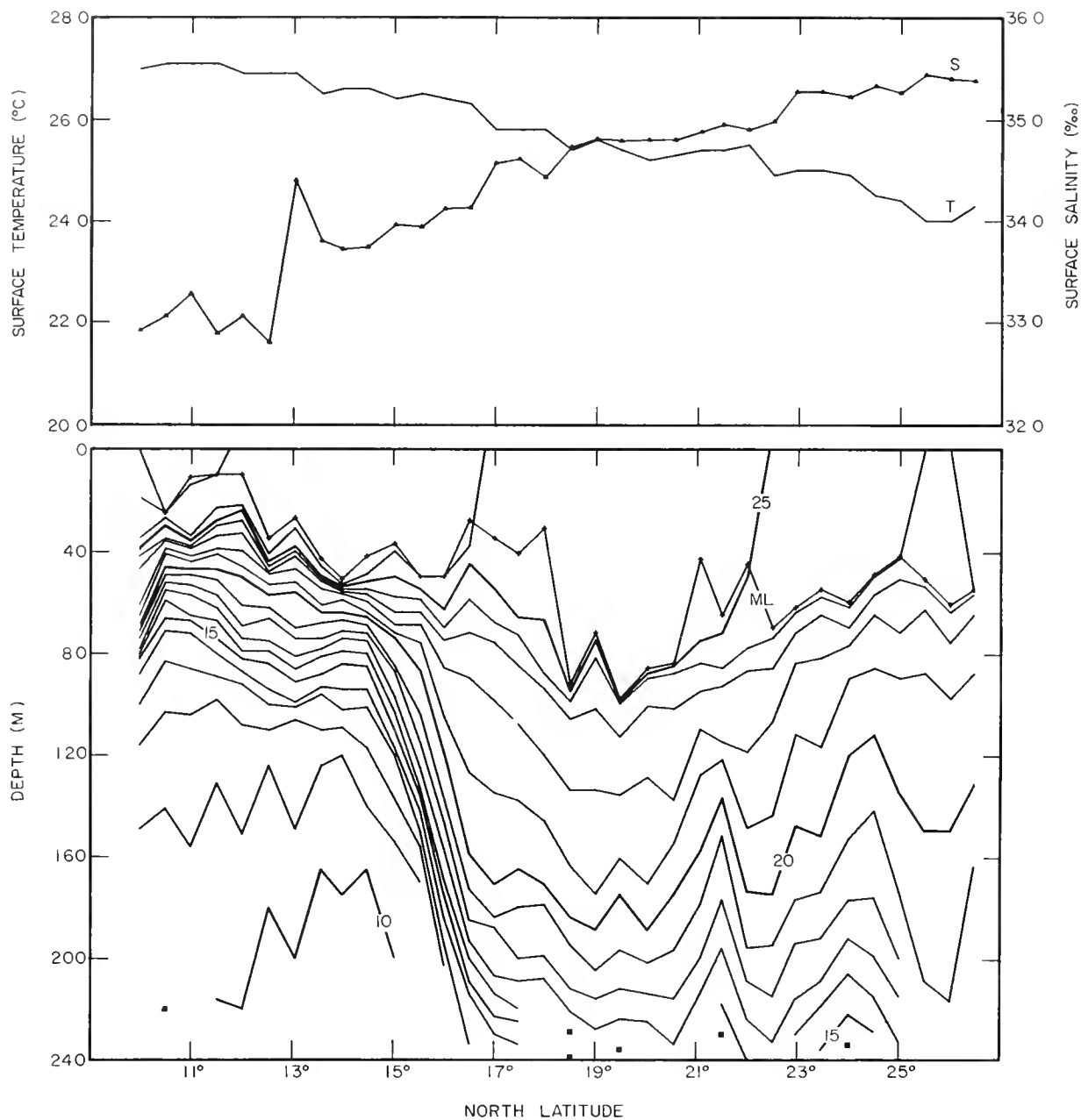


Figure 2.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 8 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

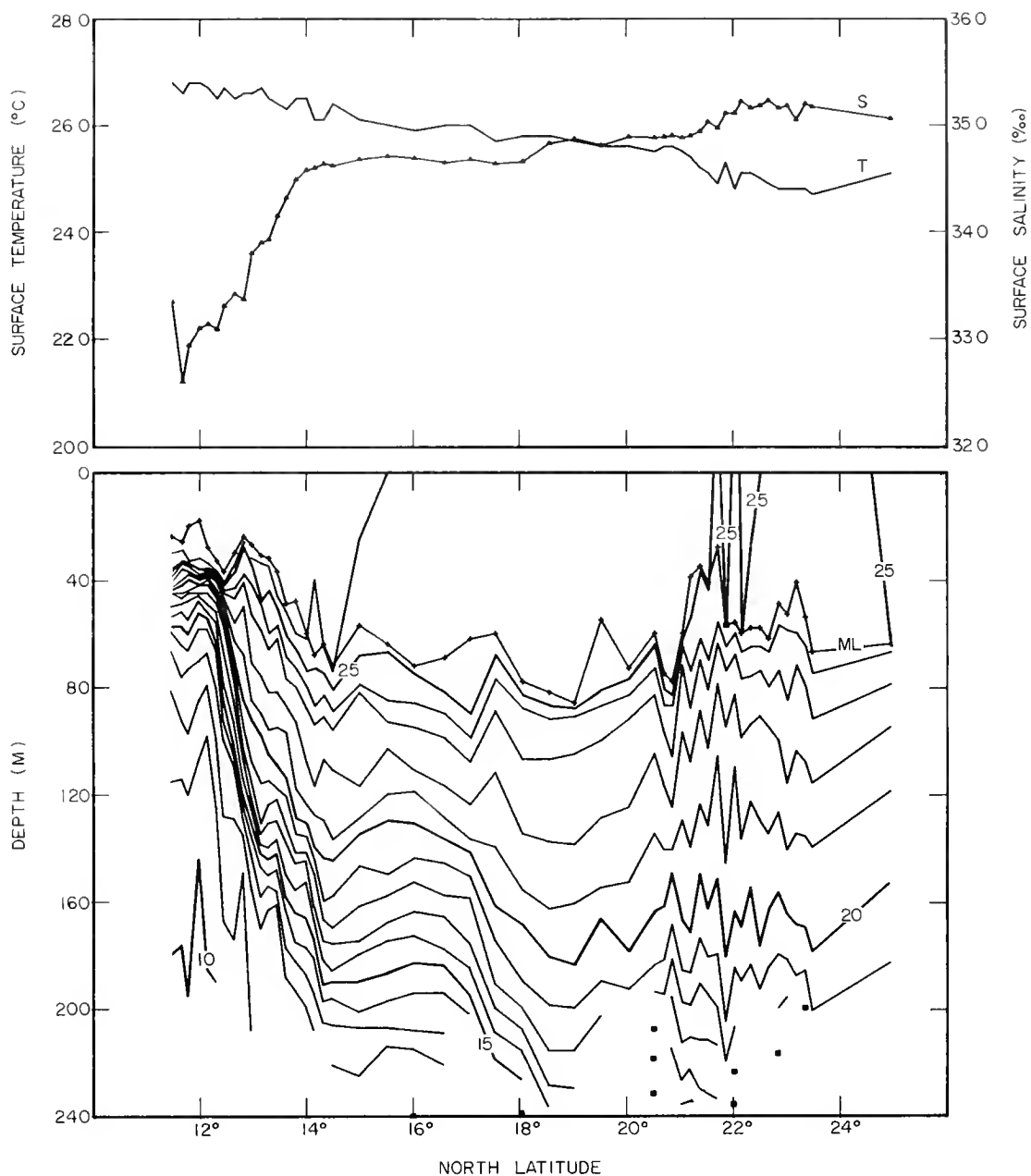


Figure 3.--Surface temperatures ($^{\circ}\text{C}.$) and salinities ($^{\circ}/\text{oo}$) (upper panel) and BT temperature ($^{\circ}\text{C}.$) section (lower panel) for Townsend Cromwell cruise 8 along long. 151°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

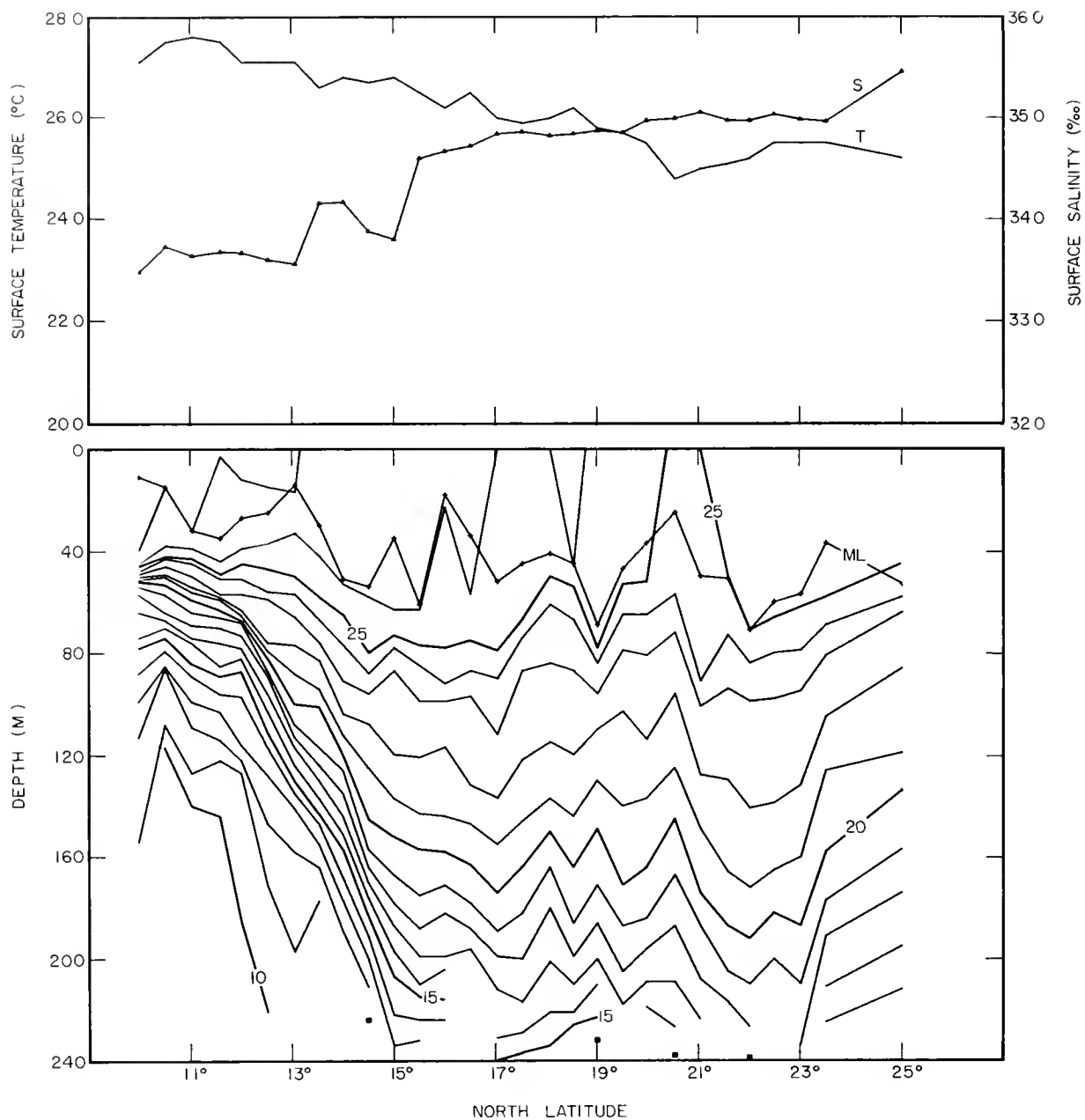


Figure 4.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 8 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

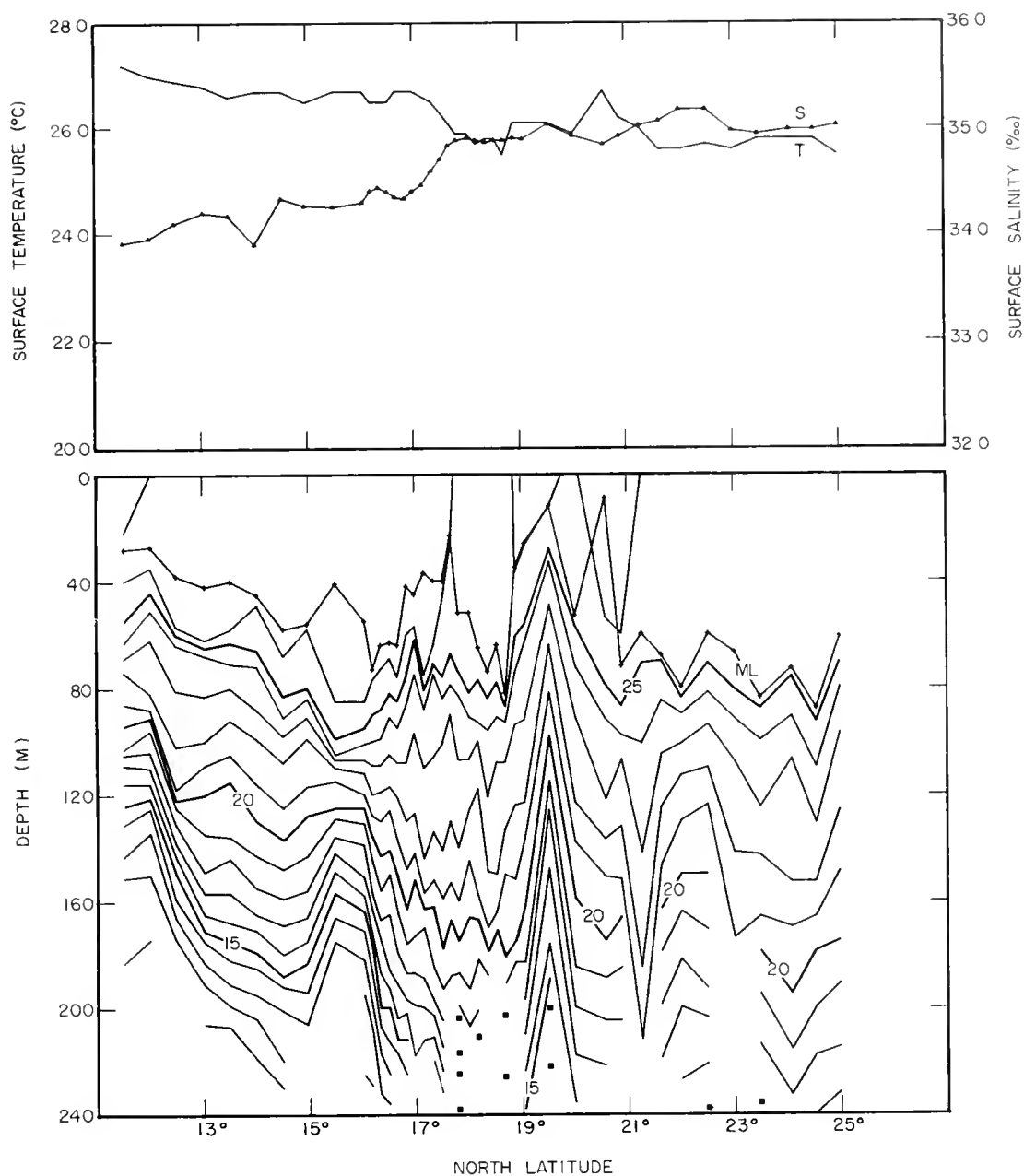


Figure 5.--Surface temperatures ($^{\circ}\text{C}$.) and salinities (‰) (upper panel) and BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 8 along long. 157°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

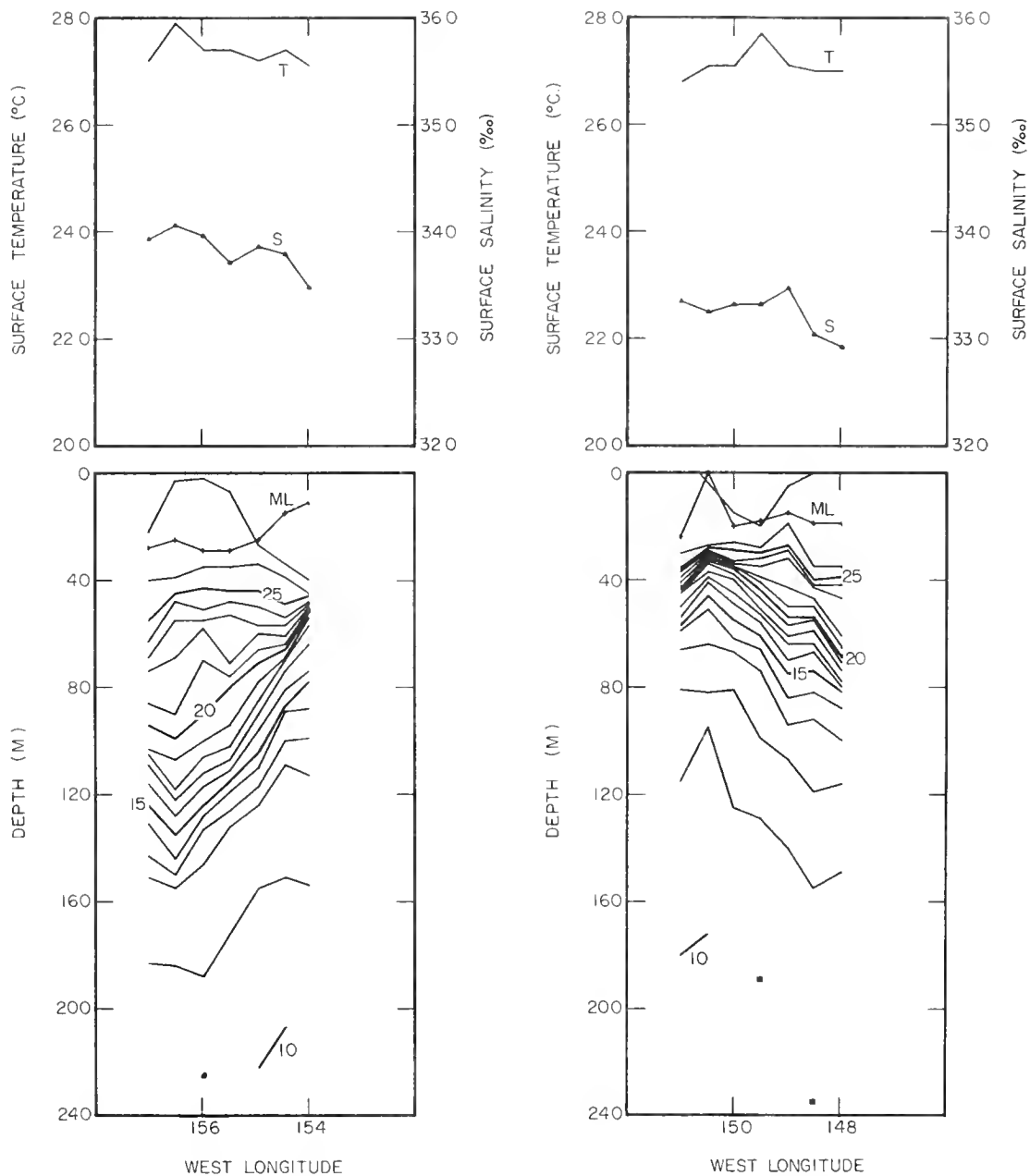


Figure 6.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 8 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

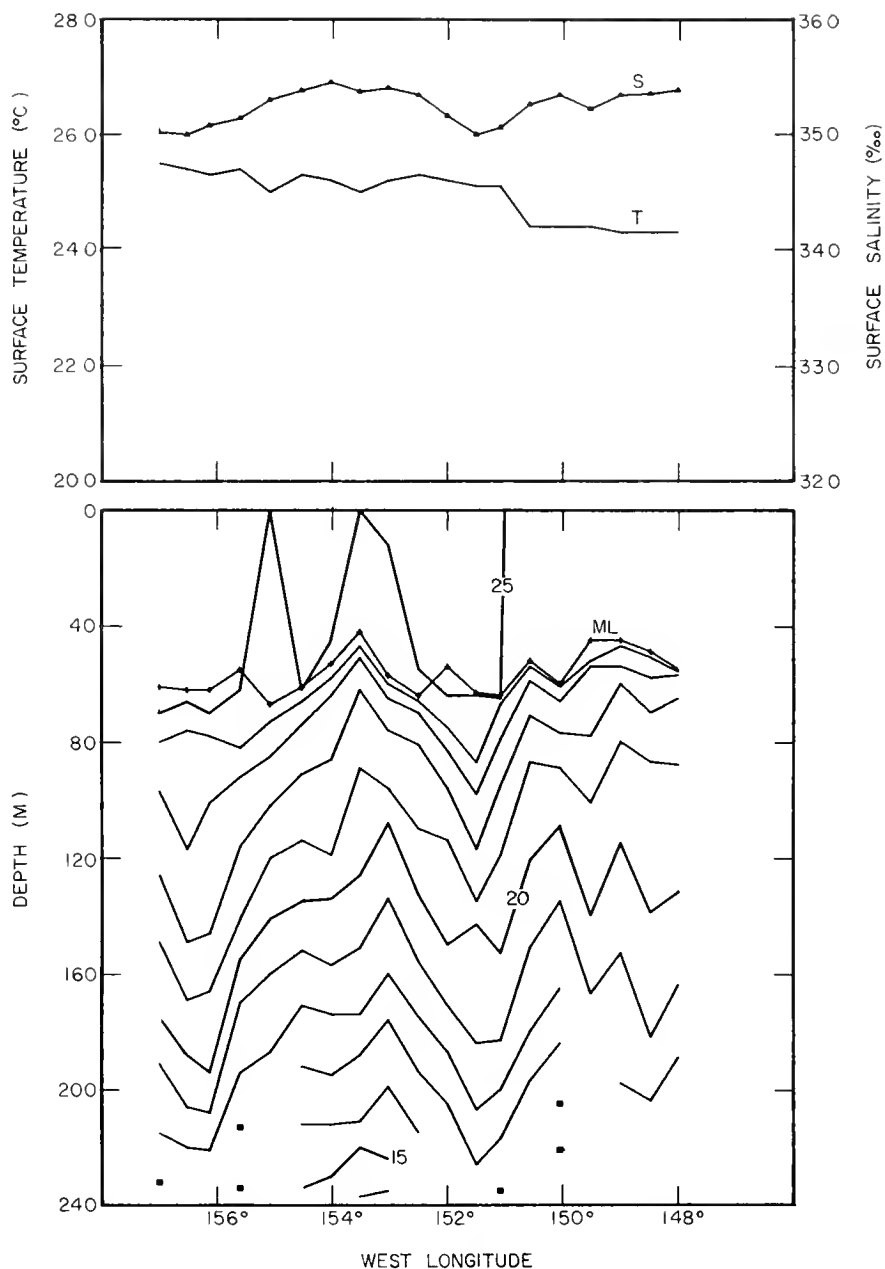


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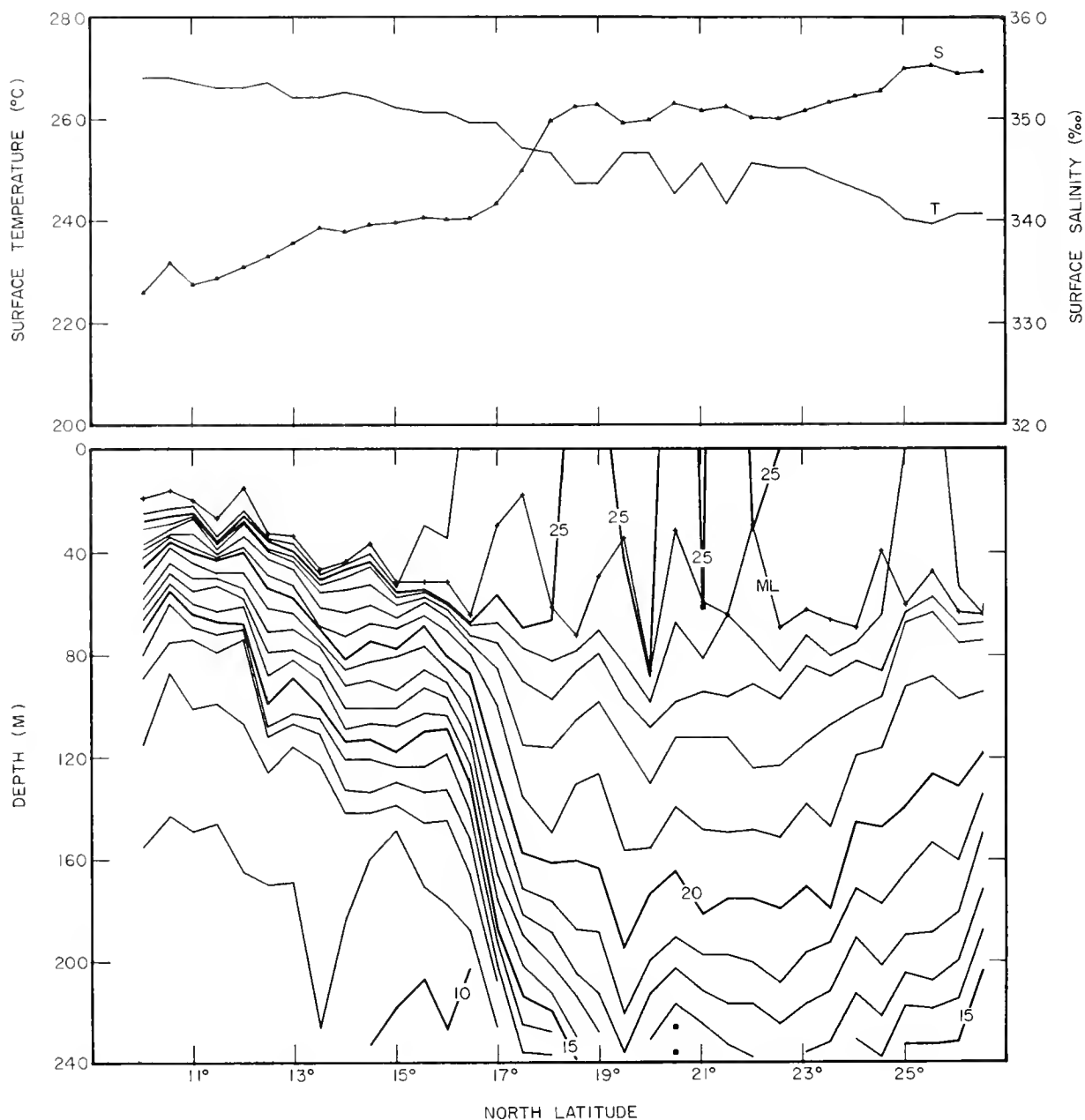


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 9 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

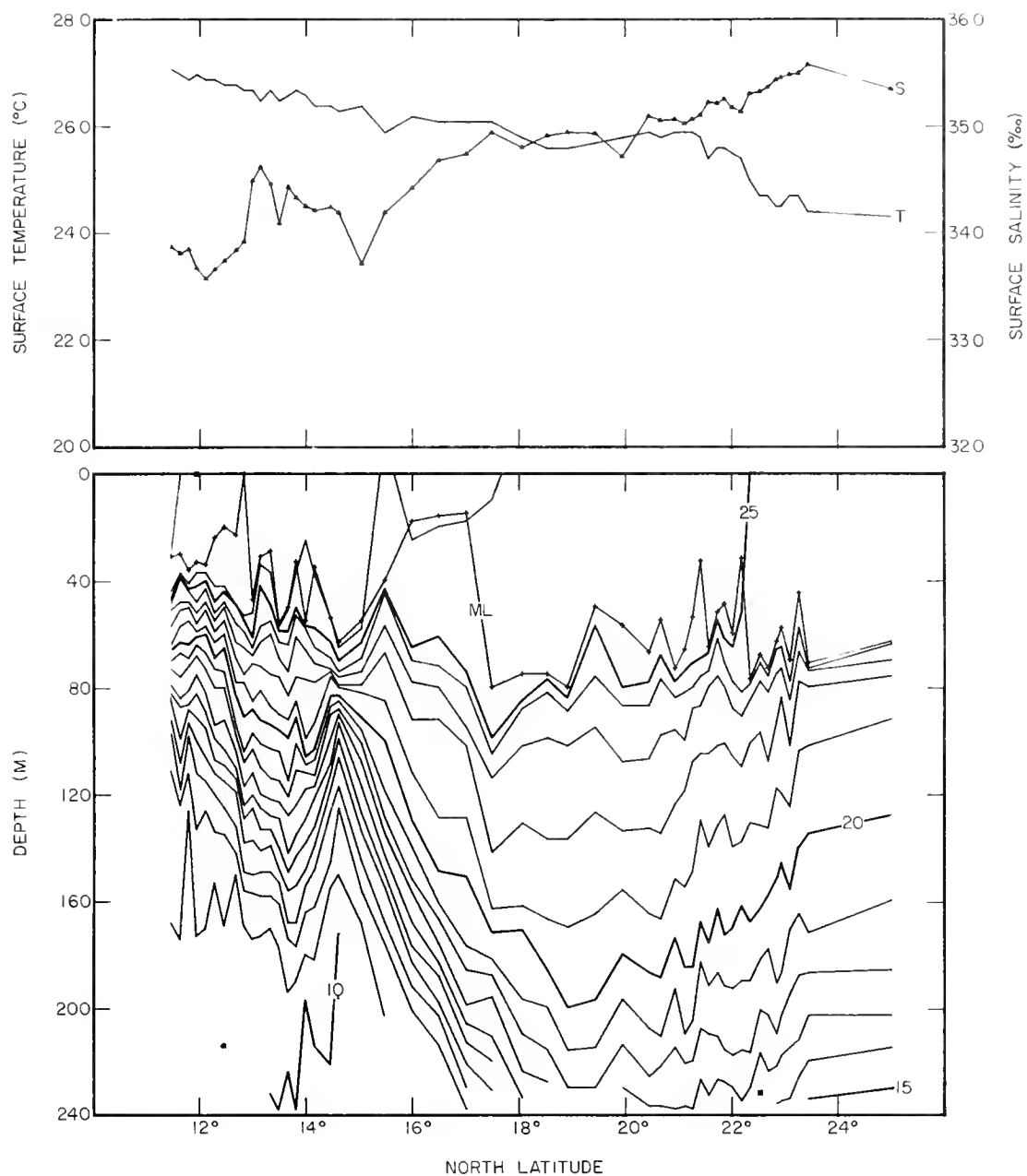


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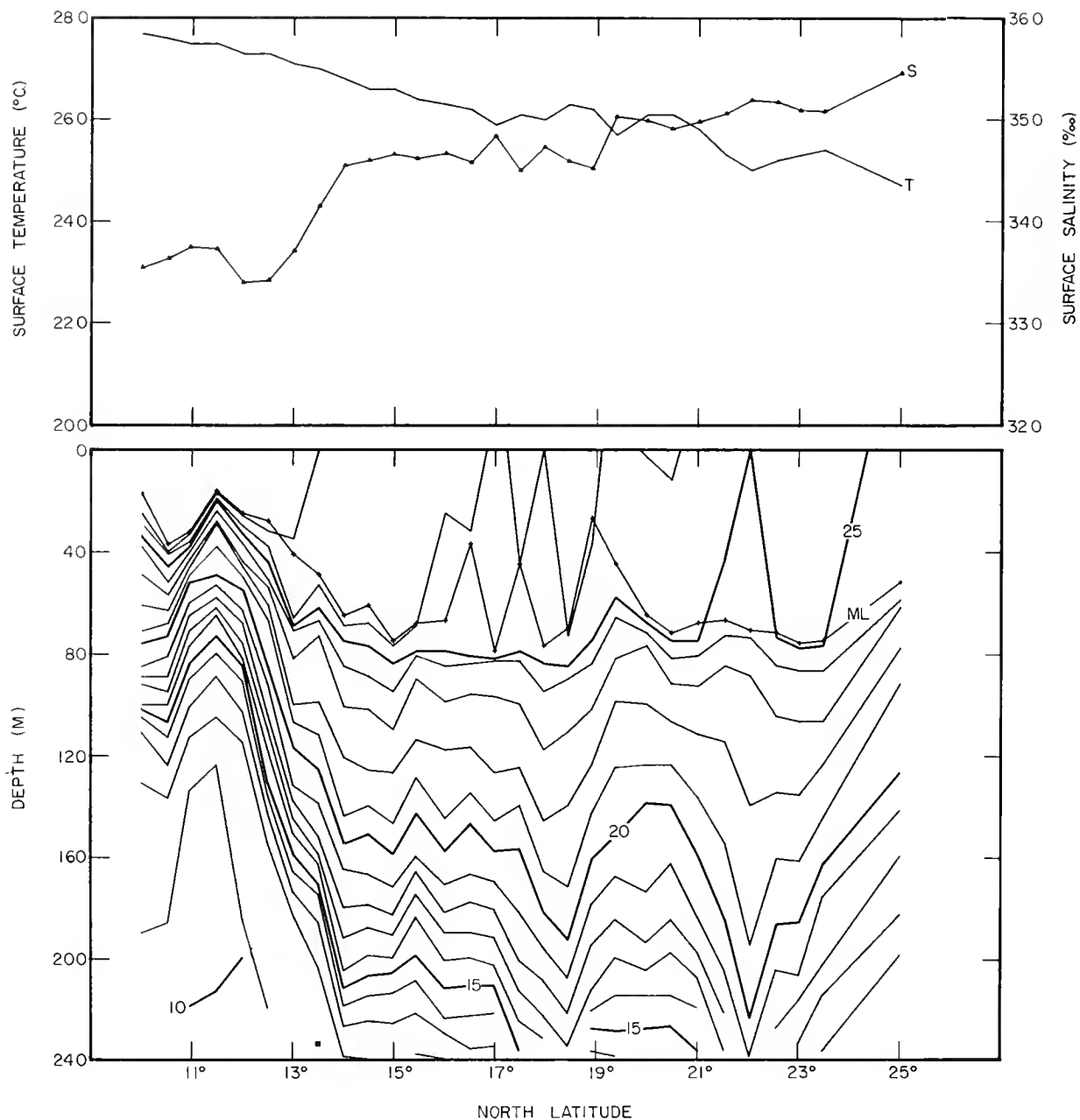


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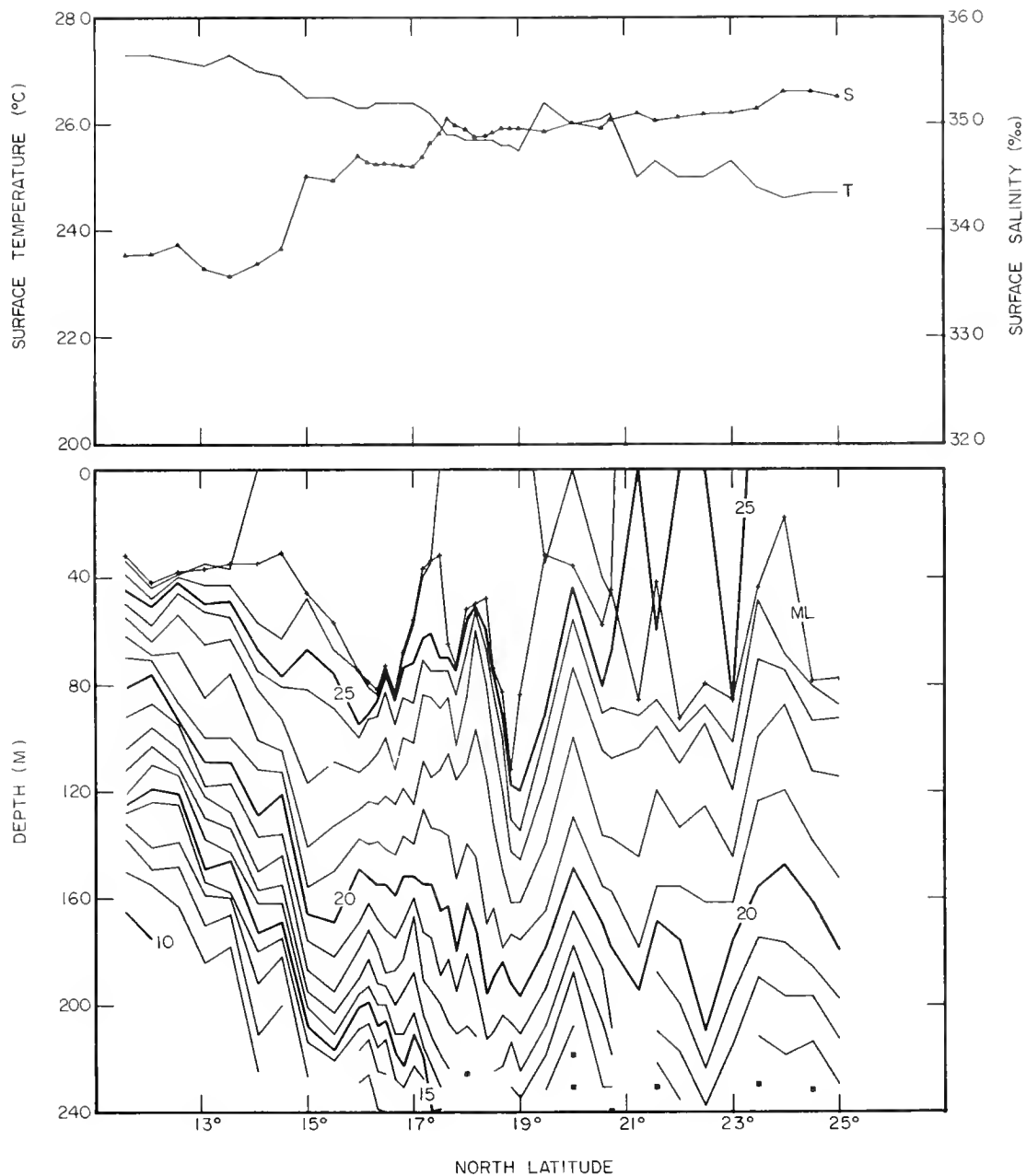


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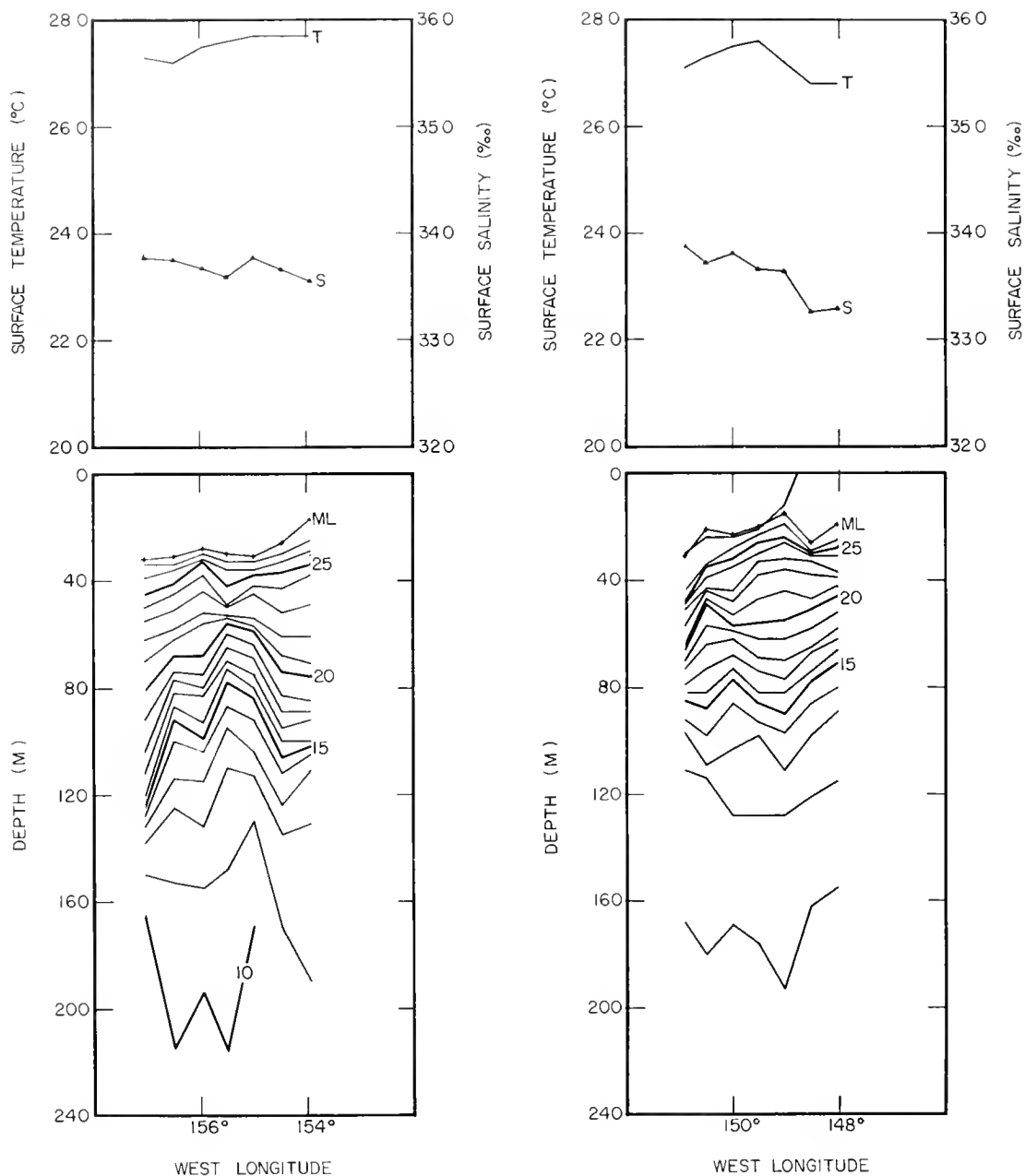


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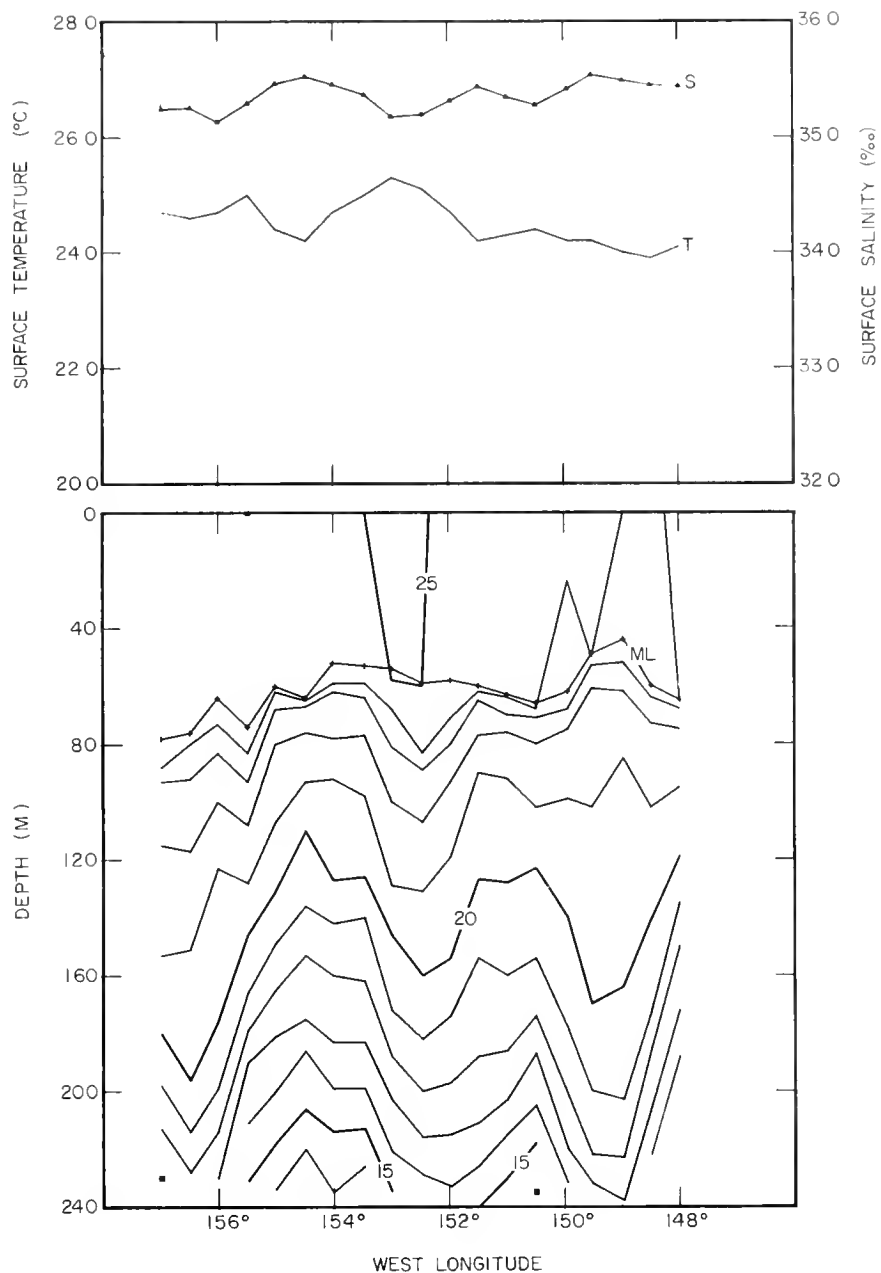


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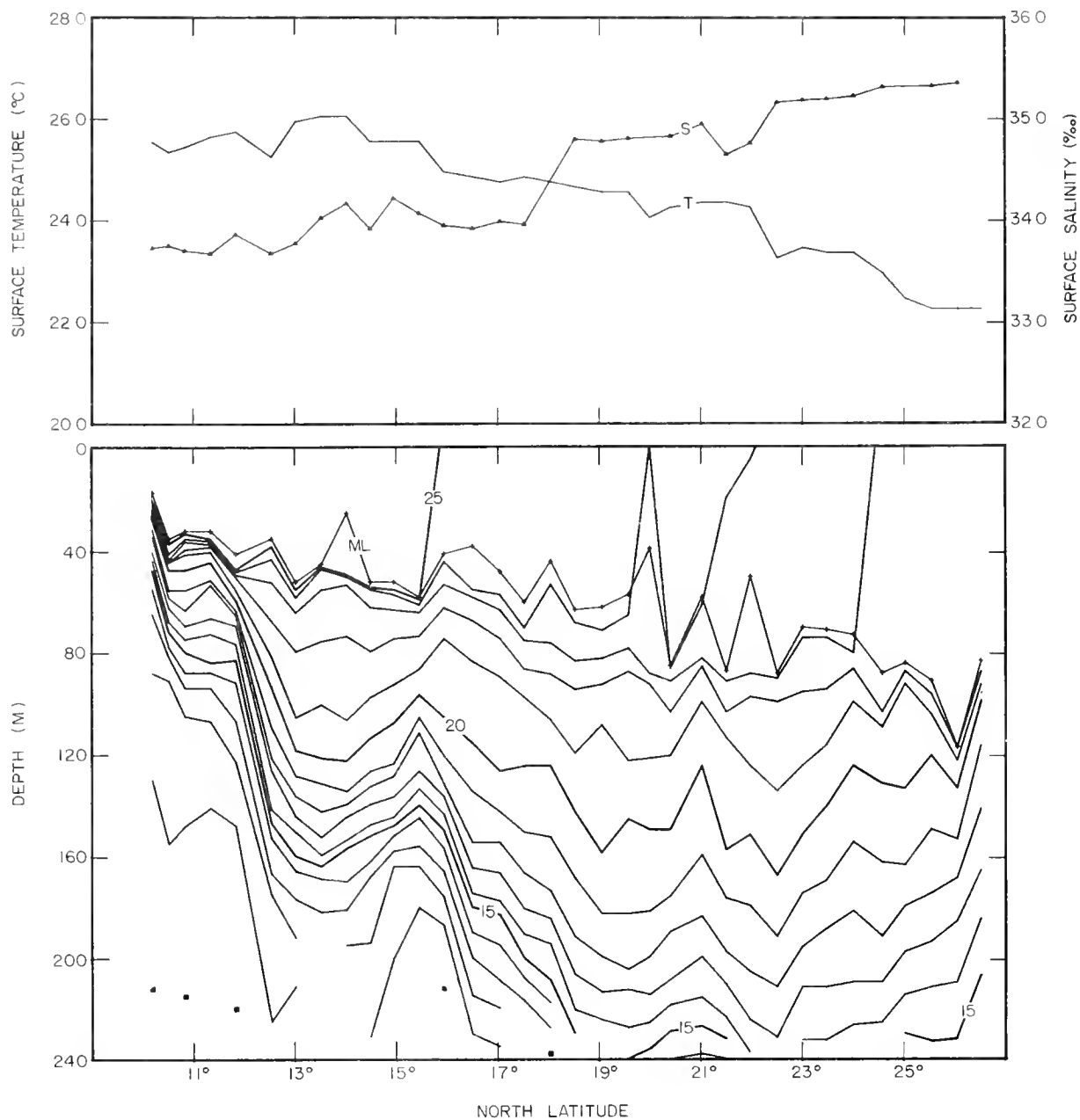


Figure 14.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 10 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

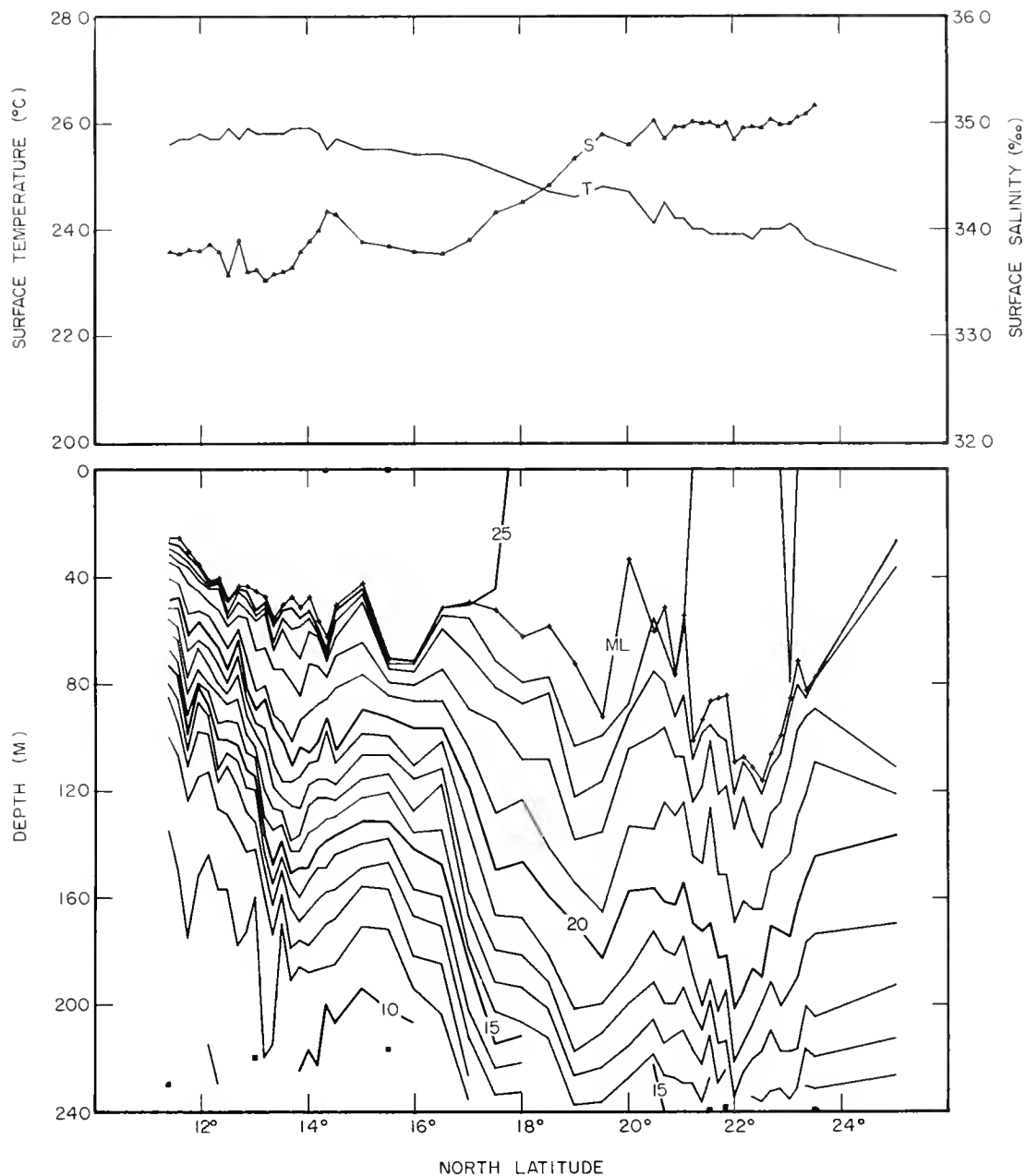


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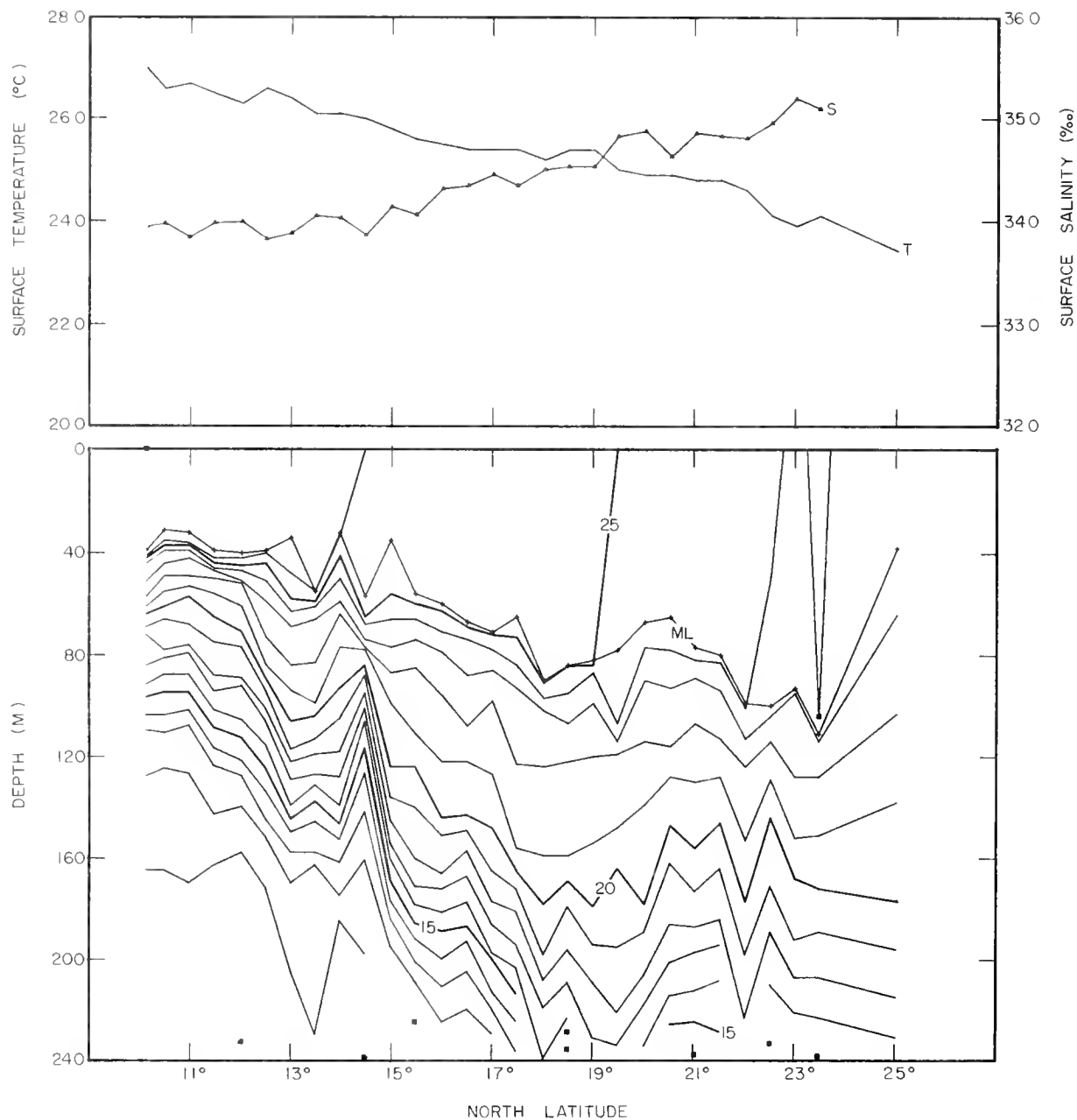


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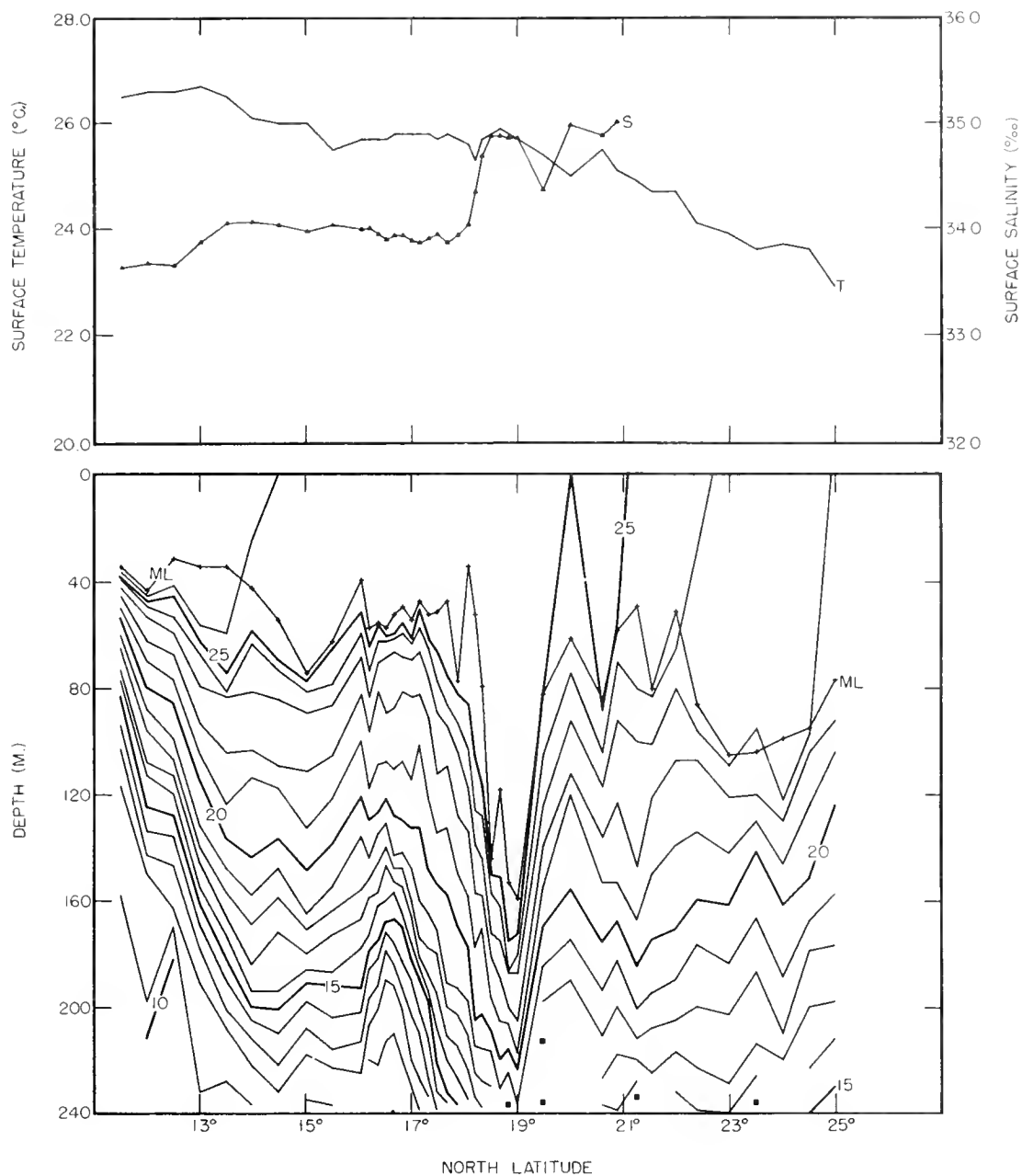


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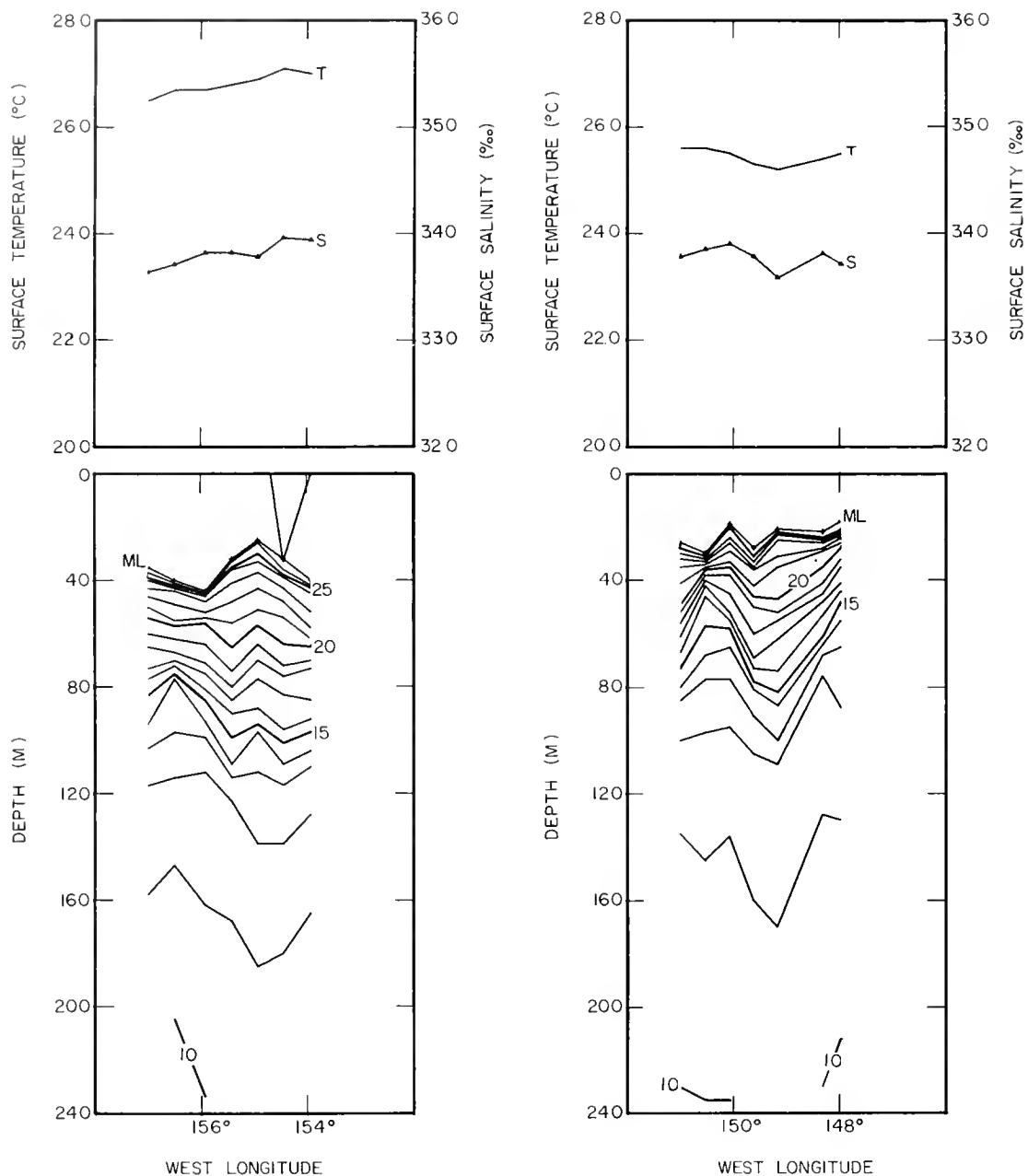


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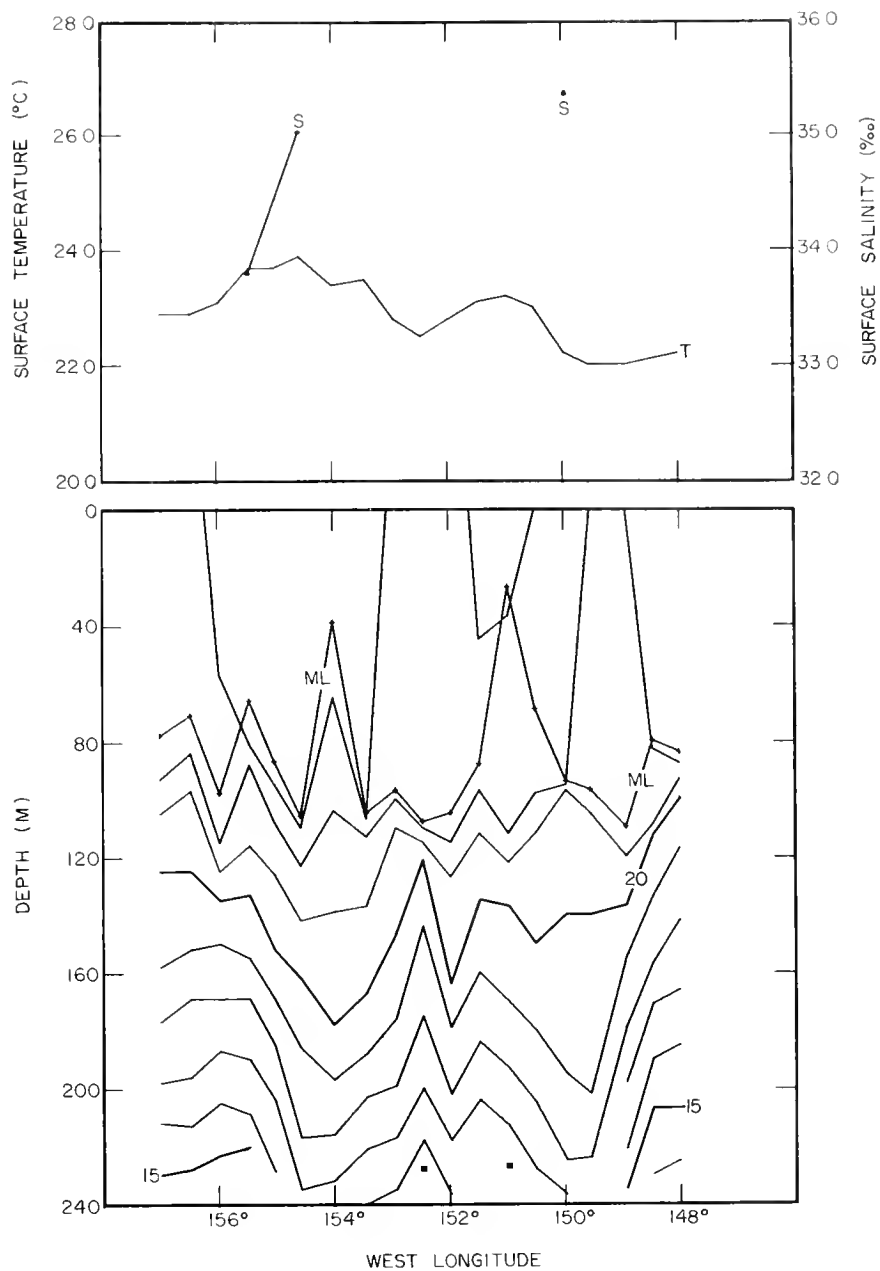


Figure 19.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 10 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

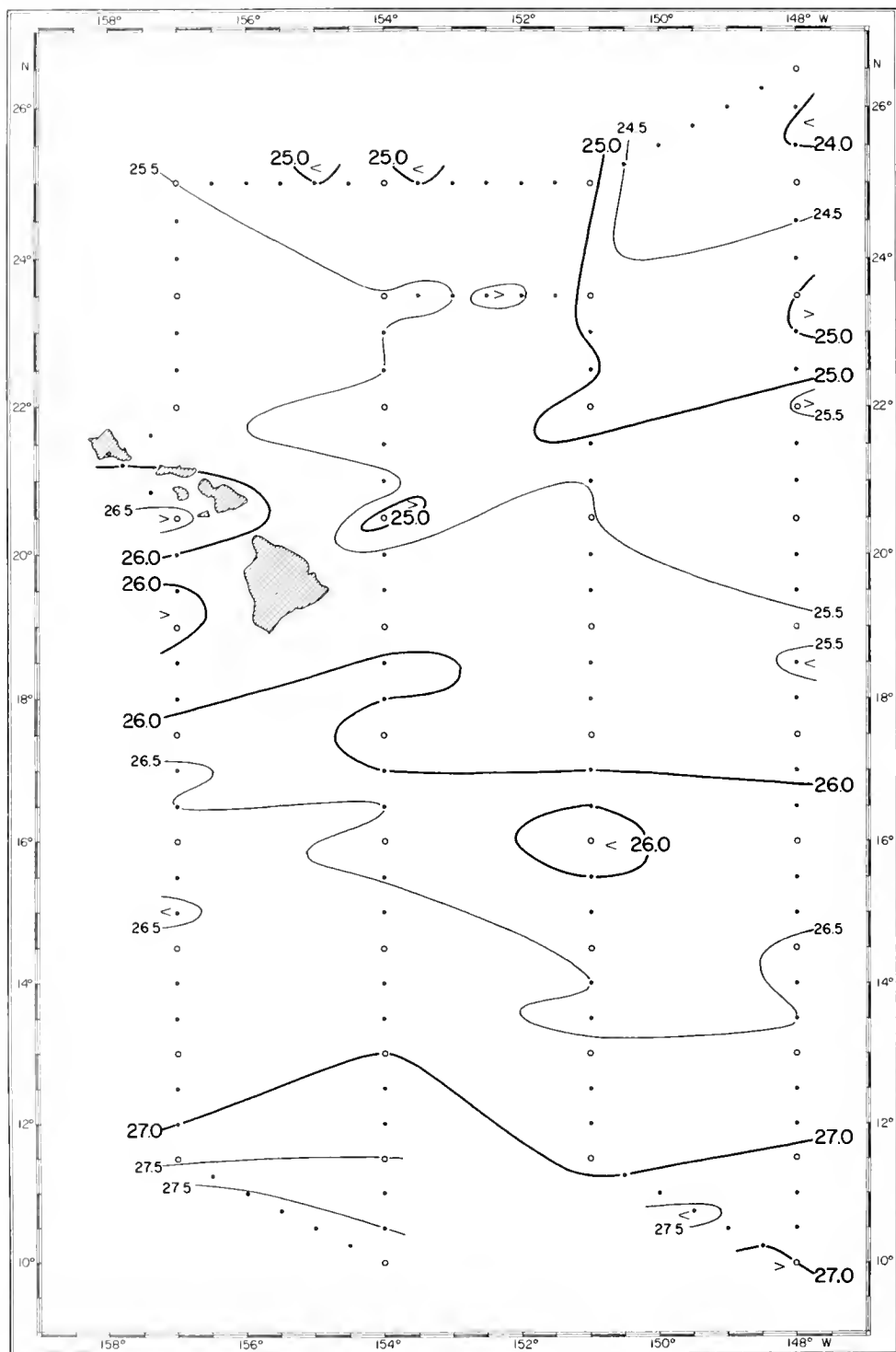


Figure 20.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 8.

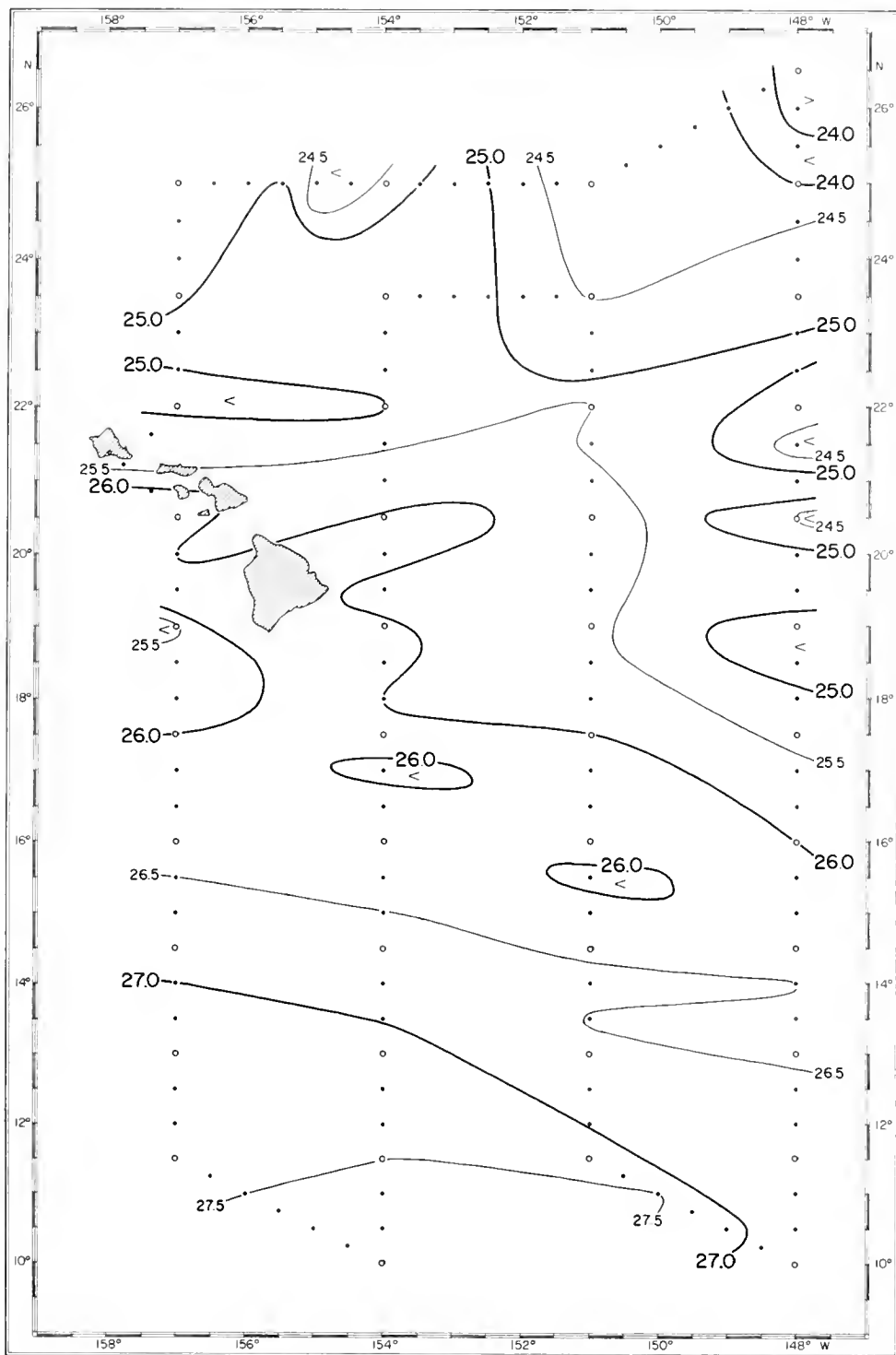


Figure 21.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 9.

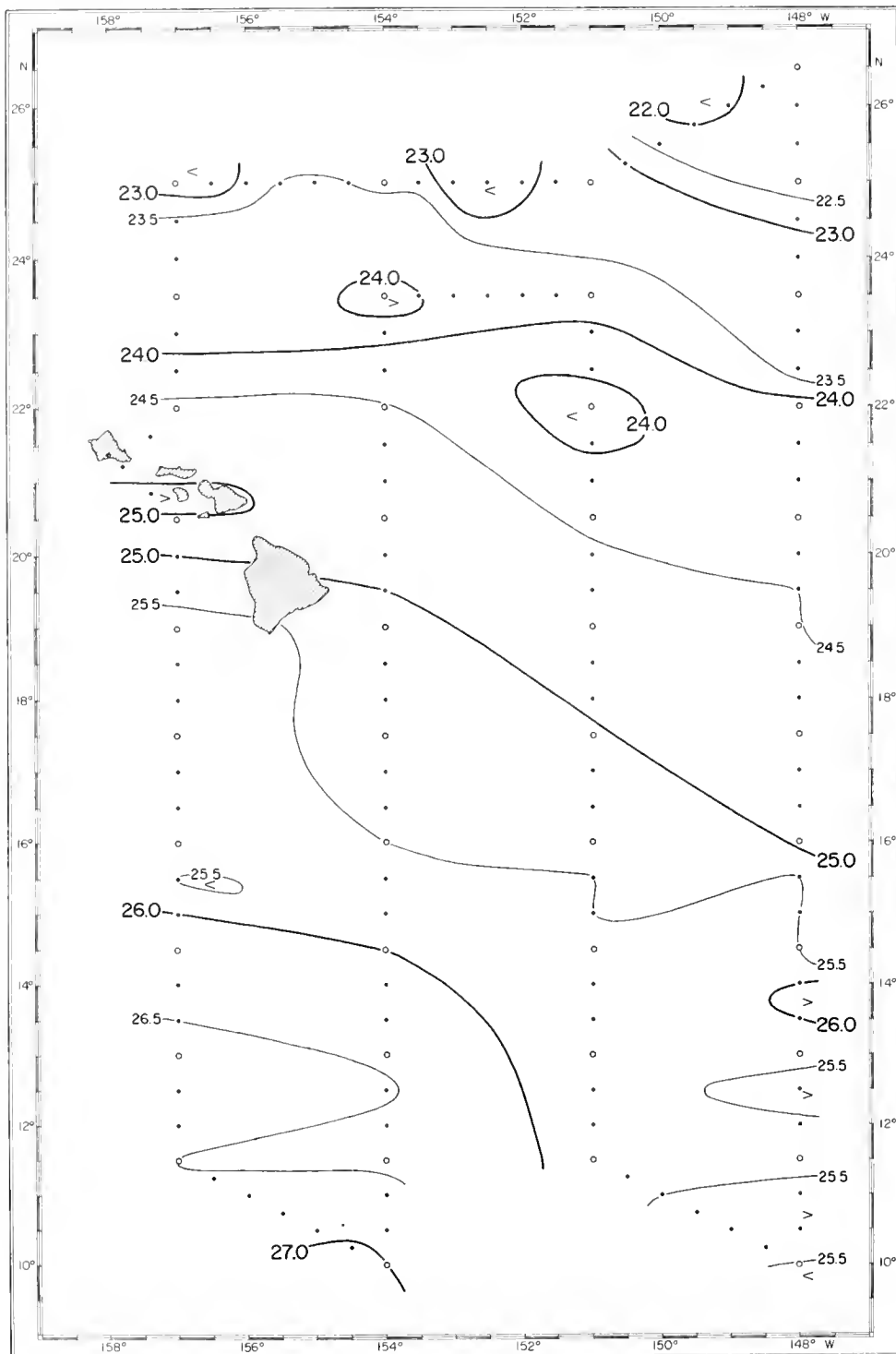


Figure 22.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 10.

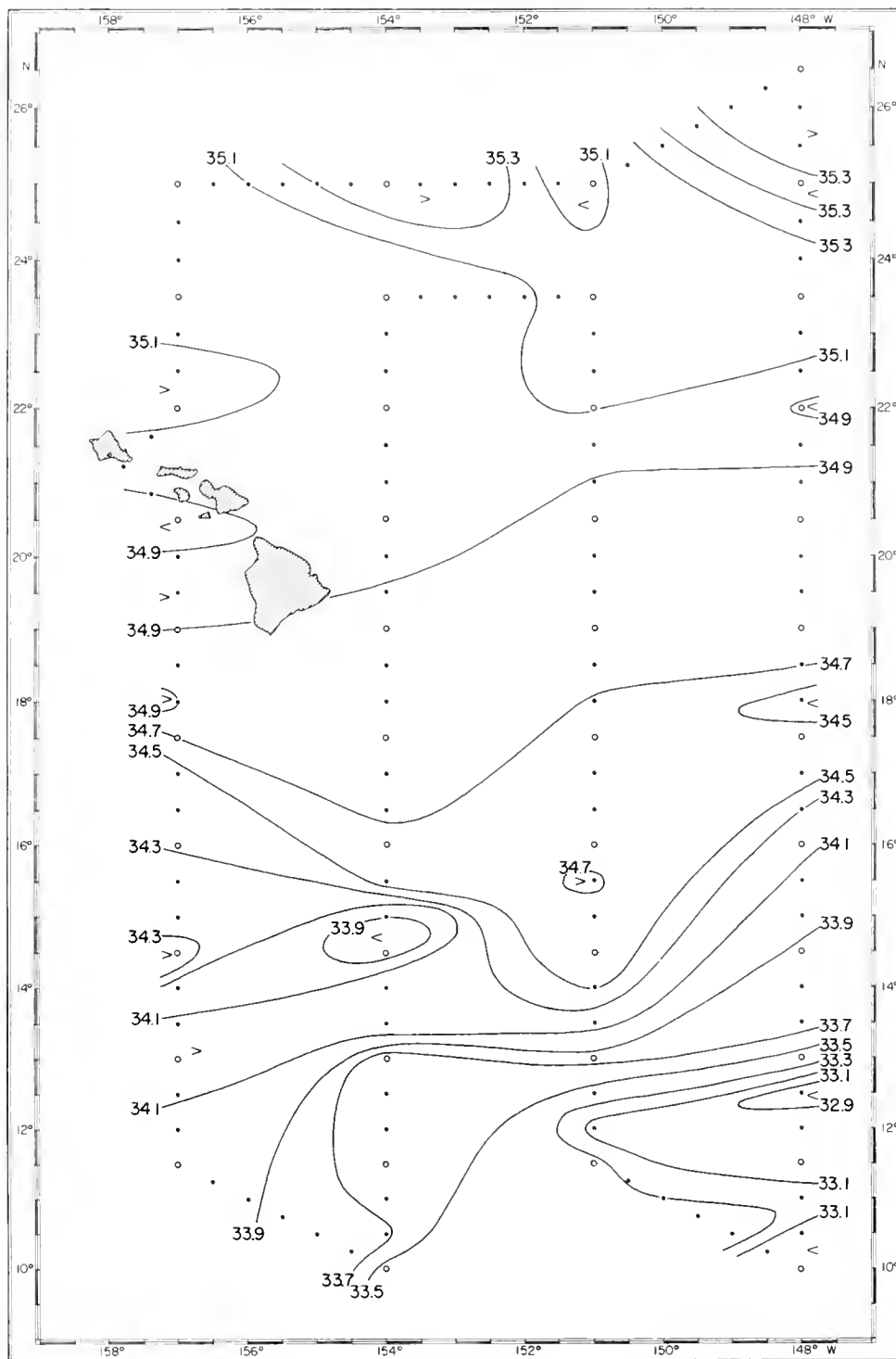


Figure 23.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 8.

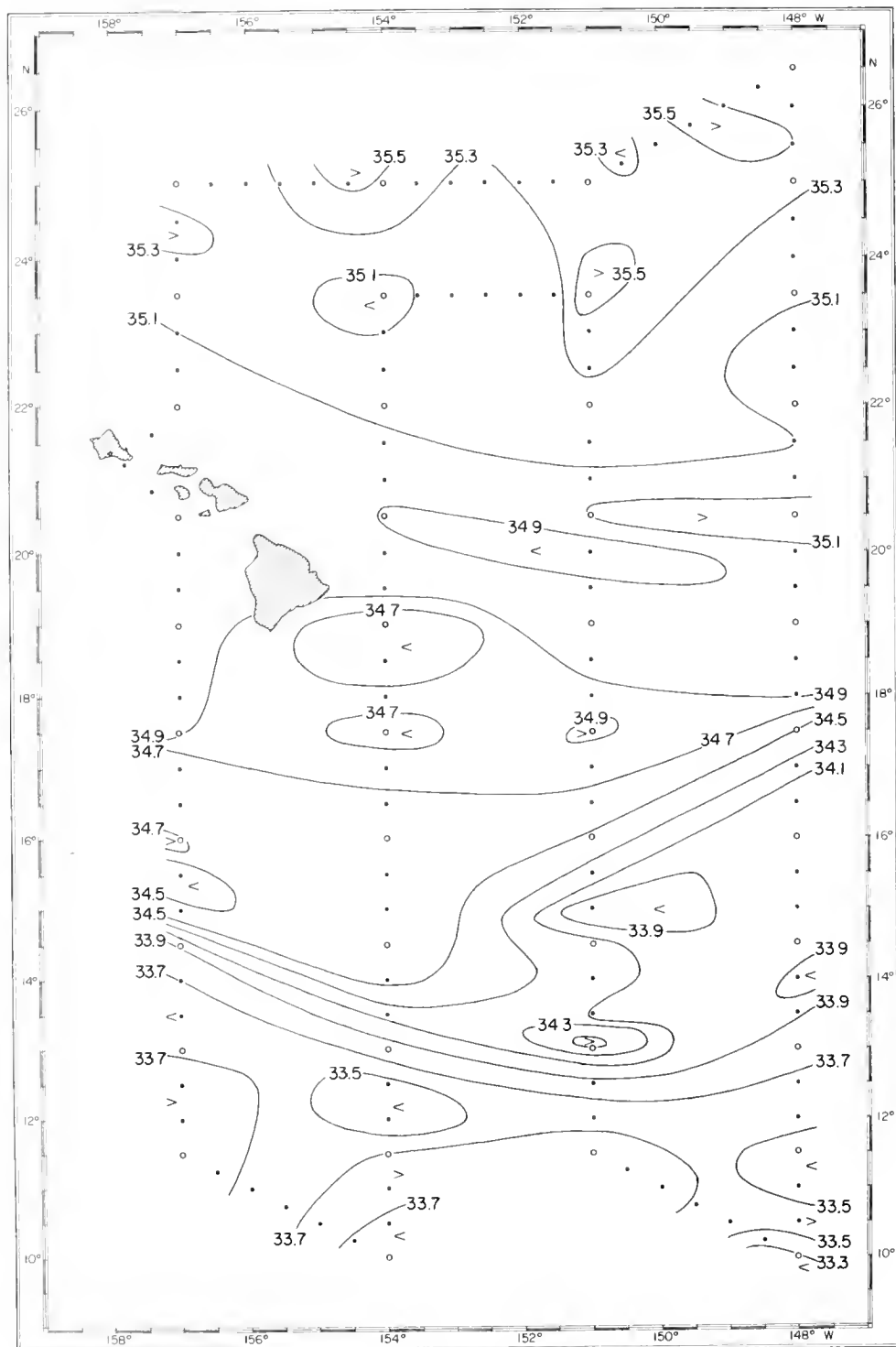


Figure 24.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 9.

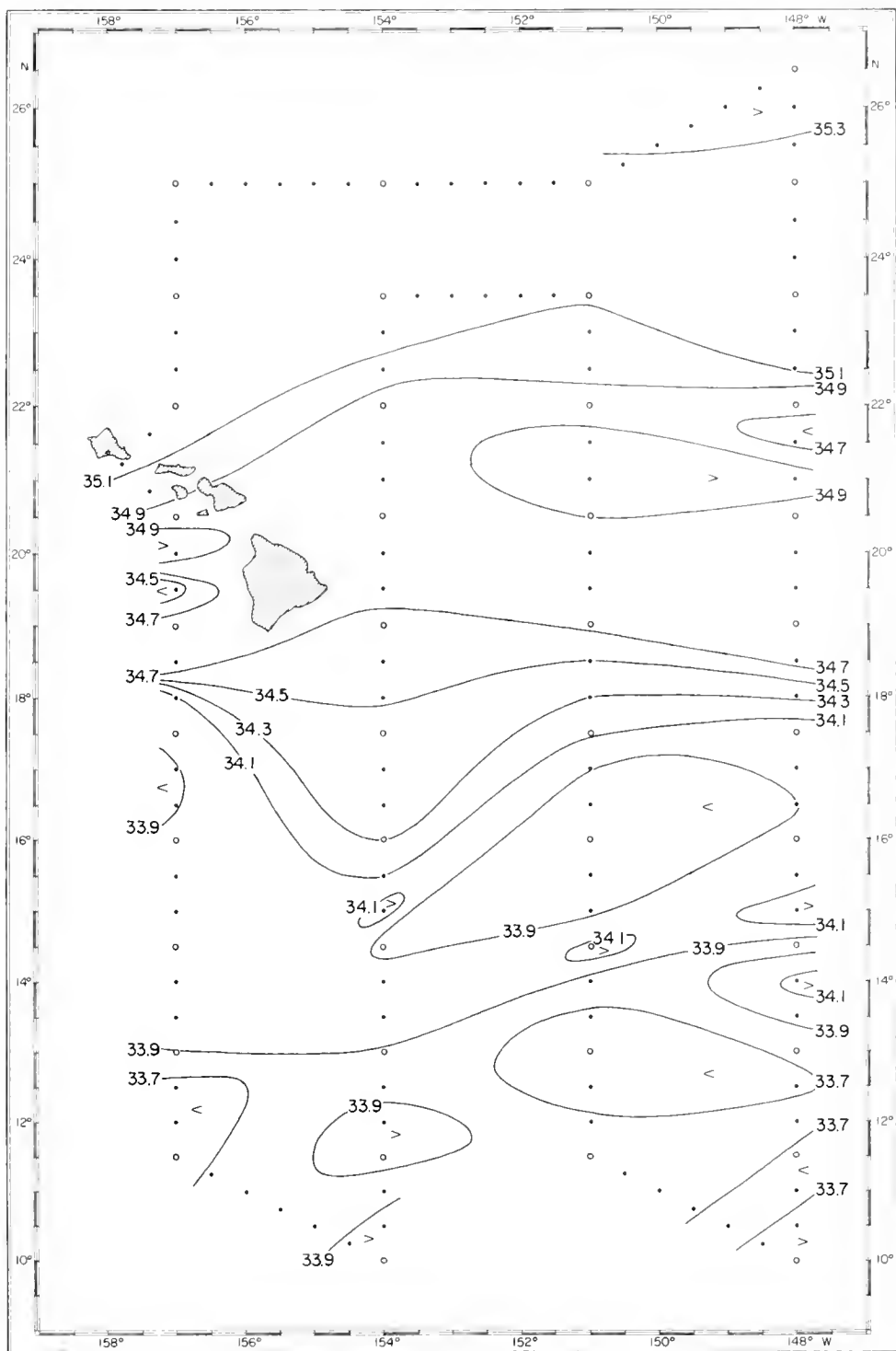


Figure 25.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 10.

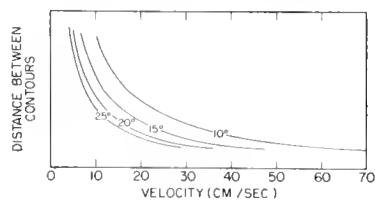
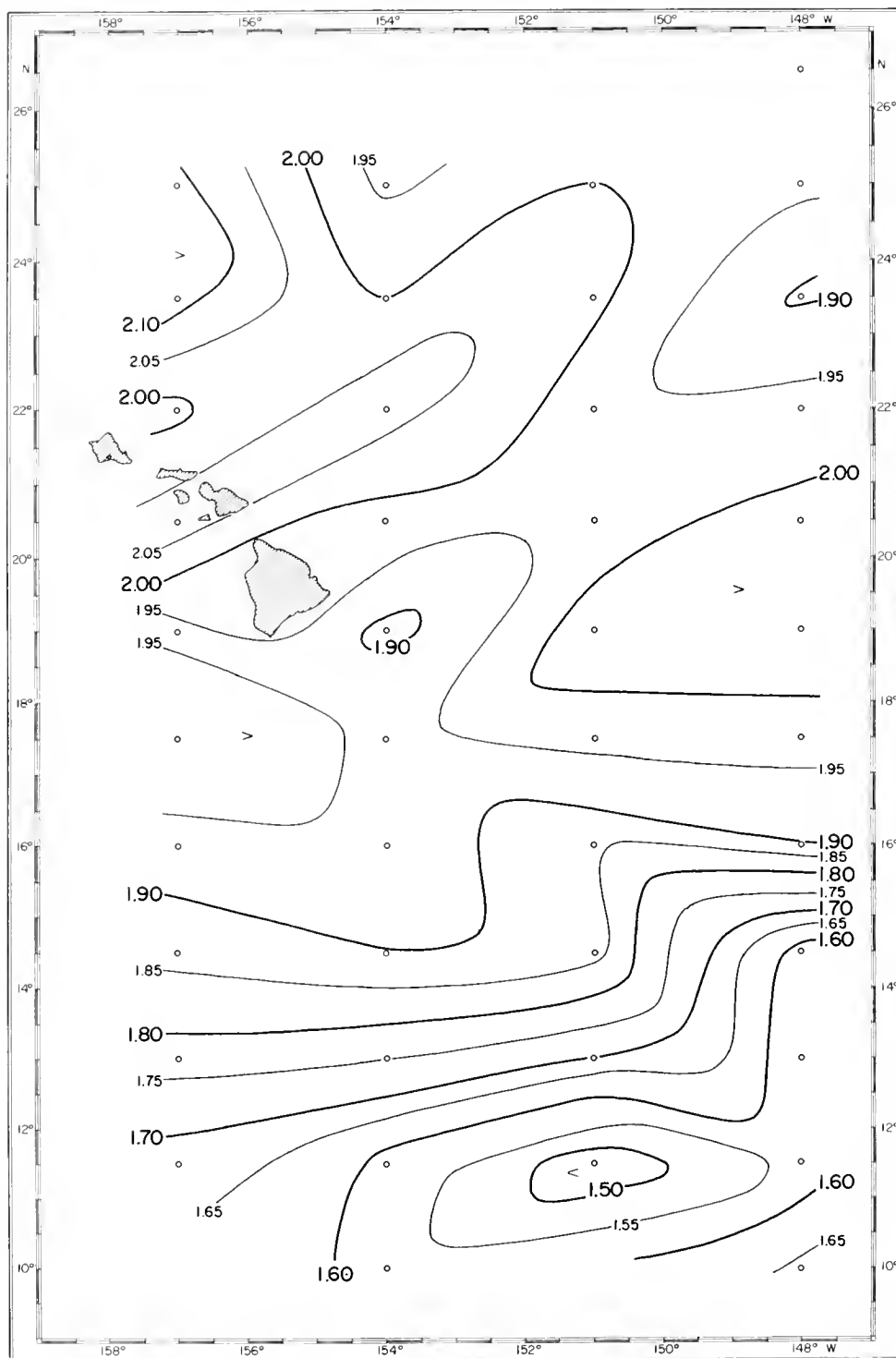


Figure 26.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 8.

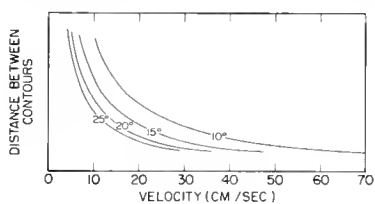
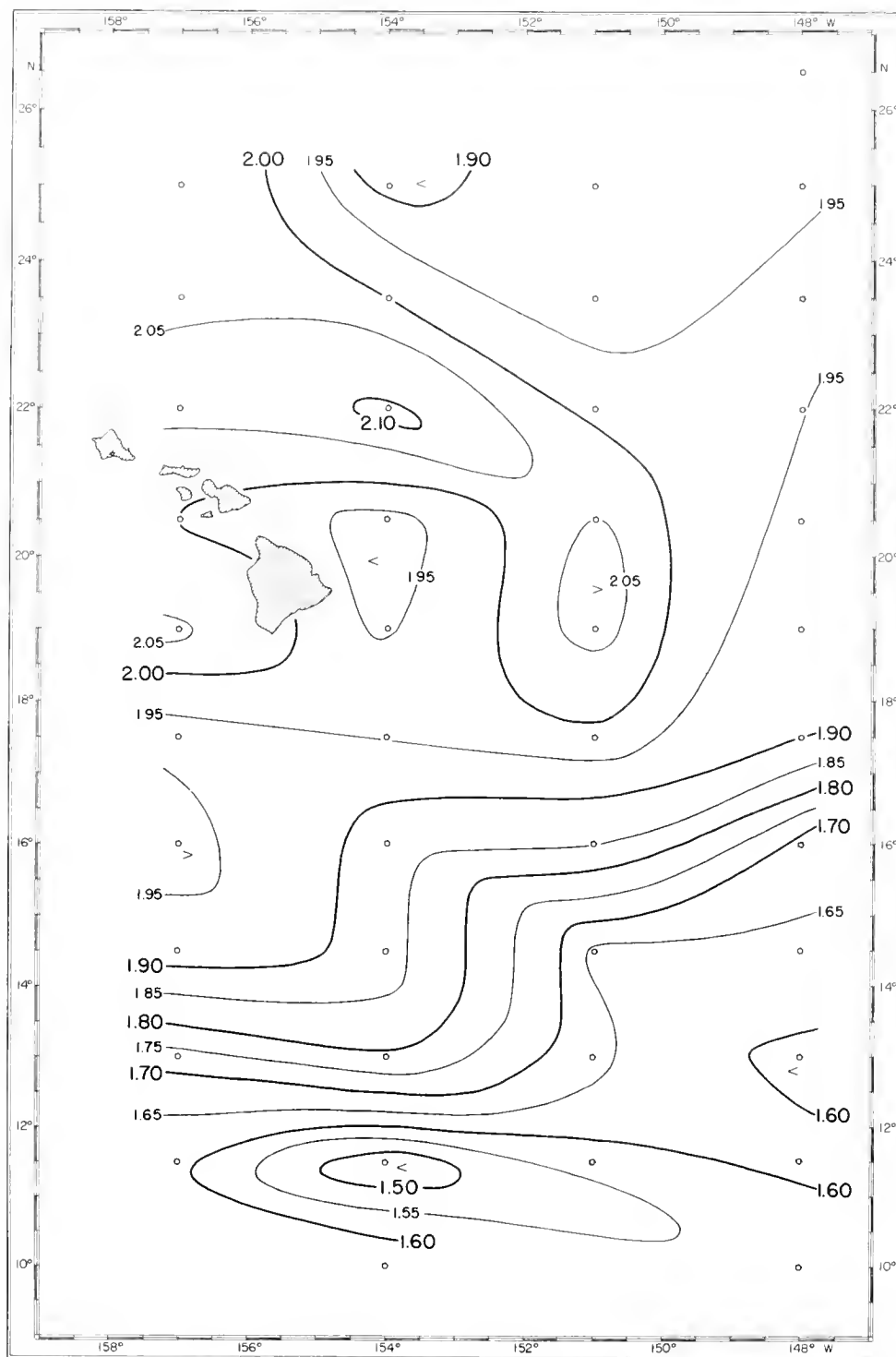


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 9.

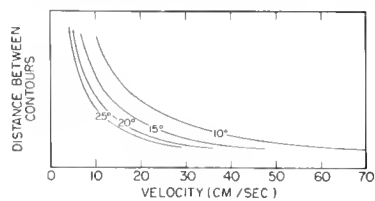
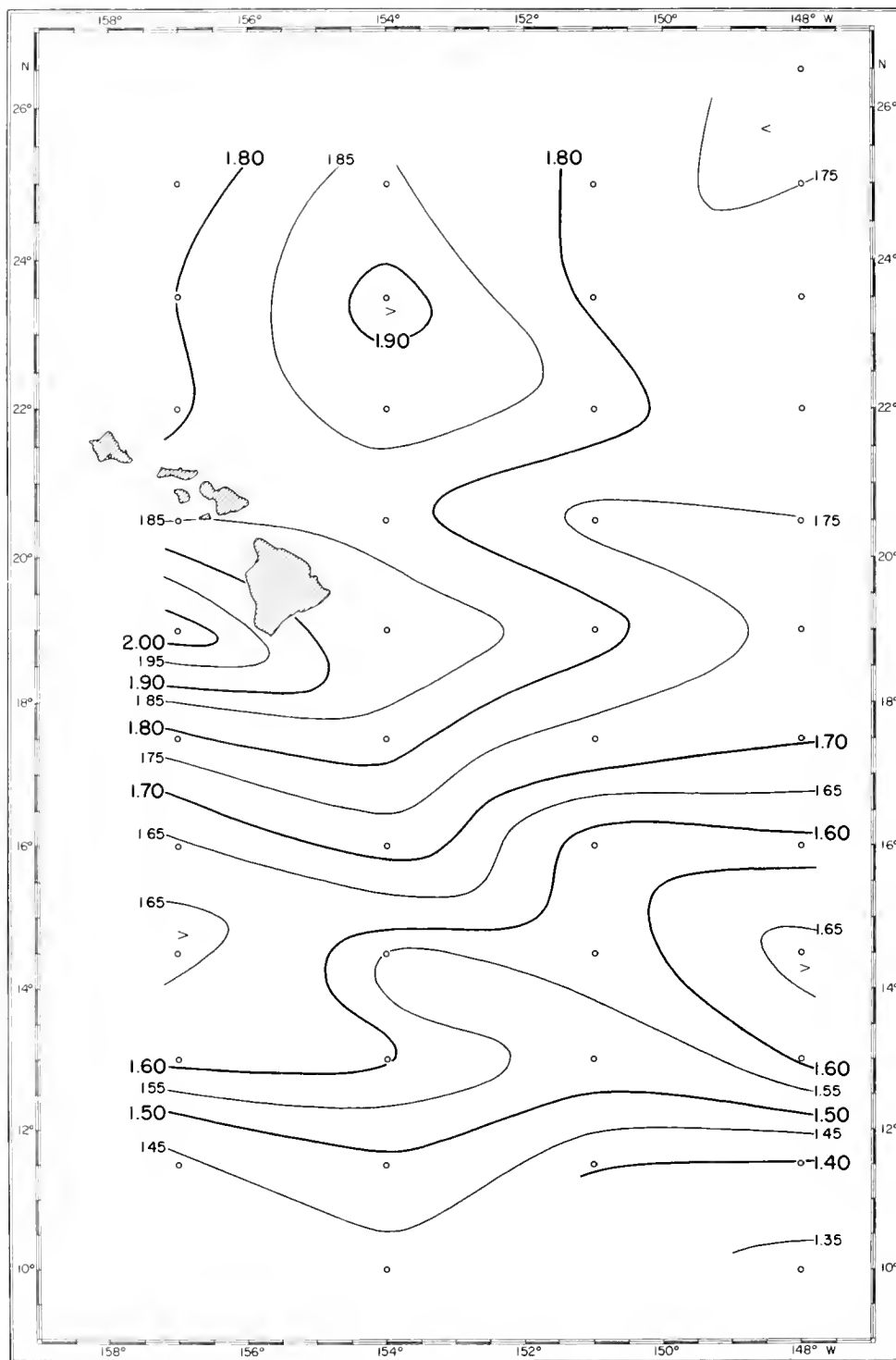


Figure 28.--Dynamic topography (dynamic meters) relative to 1,000 m. for Townsend Cromwell cruise 10.

TABLES

Information printed in the station heading has the following units or coding. Latitude and longitude are in degrees and minutes. Wet and dry bulb temperatures are in degrees Celsius. Wind speed is in knots. Barometric pressure is in tens and units of millibars (initial 9 or 10 omitted). Wind direction, weather, visibility, cloud type, and cloud cover are coded in the manner described by the International Ship Weather Code.

The observed data are presented in the following units: Depth in meters; temperature in degrees Celsius; salinity in grams per kilogram; oxygen in milliliters per liter; and phosphate ($\text{PO}_4\text{-P}$) in microgram-atoms per liter.

The derived data are listed with the following units: Density anomaly as sigma-t; specific volume anomaly (δ) in 10^5 cubic centimeters per gram; and dynamic depth anomaly (dyn. dpth.) in dynamic meters.

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 8

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA						
CROMWELL DRY BULB 27.0		8, STATION WET BULB 21.9		1, 20-34N LAT, 157-16W LONG, SEP. WIND SPEED 12, DIR. 06		2, 1964, 0600 G.C.T. BAR. 16		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	CYN.OPTH.	
0.	26.84	34.72			22.58	527.6	0.	26.84	34.72	22.58	527.6	0.000	
10.	26.84	34.84			22.67	519.4	10.	26.84	34.84	22.67	519.4	0.053	
51.	26.14	34.86			22.91	498.5	20.	26.77	34.86	22.71	516.2	0.105	
76.	25.16	35.06			23.36	456.2	30.	26.64	34.87	22.76	511.7	0.157	
102.	23.60	35.12			23.87	408.3	50.	26.17	34.86	22.90	499.2	0.259	
127.	22.44	35.16			24.24	374.4	75.	25.21	35.05	23.34	458.1	0.379	
153.	20.59	35.04			24.65	335.1	100.	23.72	35.12	23.83	411.8	0.489	
178.	18.98	34.92			24.98	304.3	150.	20.82	35.06	24.61	339.5	0.673	
193.	18.12*	34.86			25.15	288.5	200.	17.73	34.82	25.22	282.5	0.835	
226.	16.36	34.66			25.42	263.5	250.	15.19	34.54	25.59	247.5	0.968	
254.	14.97	34.52			25.63	244.4	300.	12.00	34.27	26.04	205.1	1.082	
279.	12.96	34.34			25.91	217.5	400.	8.51	34.15	26.55	156.5	1.265	
304.	11.86	34.26			26.06	203.2	500.	6.74	34.02	26.71	141.7	1.415	
405.	8.38	34.15			26.57	154.7	600.	5.68	34.14	26.93	120.6	1.548	
506.	6.67	34.02			26.71	141.1	700.	5.13	34.30	27.13	102.3	1.660	
607.	5.63	34.15			26.95	119.0	800.	4.82	34.45	27.28	88.7	1.757	
808.	4.80	34.46			27.25	87.8	1000.	4.15	34.52	27.41	77.2	1.925	
1009.	4.12	34.52			27.41	76.9	1200.	3.53	34.56	27.50	68.5	2.072	
1209.	3.50	34.56			27.51	68.2	1500.	2.88	34.59	27.59	60.5	2.269	
1511.	2.86	34.59			27.59	60.3							

CROMWELL		8, STATION		2, 19-3N LAT, 156-58W LONG, SEP.		2, 1964, 1700 G.C.T.							
DRY BULB 26.0		WET BULB 22.3		WIND SPEED 14, DIR. 07		BAR. 14		WEATHER 03		VIS. 6		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.DPTH.	
0.	26.16	34.88			22.91	495.6	0.	26.16	34.88	22.91	495.6	0.000	
10.	26.14	34.88			22.92	495.4	10.	26.14	34.88	22.92	495.4	0.050	
20.	26.12	34.90			22.94	493.8	20.	26.12	34.90	22.94	493.8	0.100	
30.	26.09	34.92			22.97	491.8	30.	26.09	34.92	22.97	491.8	0.149	
51.	24.43	34.92			23.47	444.2	50.	24.53	34.92	23.44	447.0	0.244	
77.	23.04	35.04			23.97	397.5	75.	23.12	35.03	23.94	400.5	0.351	
101.	22.27	35.09			24.23	373.8	100.	22.30	35.09	24.22	374.8	0.448	
126.	20.85	35.14			24.66	333.6	150.	19.93	35.05	24.84	317.3	0.623	
176.	18.92	34.90			24.98	304.2	200.	17.43	34.77	25.25	279.2	0.773	
192.	18.04	34.83			25.15	288.7	250.	13.87	34.38	25.75	232.0	0.902	
225.	15.43	34.55			25.55	251.1	300.	11.31	34.22	26.13	195.9	1.010	
253.	13.70	34.36			25.77	229.9	400.	7.87	34.16	26.65	146.3	1.182	
279.	12.19	34.25			25.99	209.4	500.	6.29	34.29	26.98	115.8	1.315	
303.	11.20	34.22			26.15	194.1	600.	5.64	34.36	27.11	103.7	1.426	
403.	7.79	34.16			26.67	145.1	700.	5.19	34.40	27.20	95.8	1.526	
505.	6.25	34.30			26.99	114.7	800.	4.83	34.44	27.27	89.7	1.620	
606.	5.62	34.36			27.12	103.3	1000.	4.30	34.52	27.39	79.3	1.791	
806.	4.81	34.44			27.27	89.4	1200.	3.67	34.57	27.50	69.5	1.942	
1006.	4.29	34.52			27.40	79.0	1500.	2.87	34.58	27.58	61.0	2.140	
1206.	3.65	34.57*			27.50	65.2							
1506.	2.85	34.58			27.59	60.9							

TEMPERATURE ERROR TERM AT 150. METERS IS 0.10

CROMWELL		8, STATION		3, 17-30N LAT, 157-1W LONG, SEP.		3, 1964, 0400 G.C.T.							
DRY BULB 26.2		WET BULB 22.9		WIND SPEED 24, DIR. 06		BAR. 13		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	26.43	34.68			22.68	518.1	0.	26.43	34.68	22.68	518.1	0.000	
10.	26.45	34.68			22.67	519.1	10.	26.45	34.68	22.67	519.1	0.052	
30.	26.44	34.68			22.68	519.6	20.	26.47	34.67	22.66	520.7	0.105	
50.	26.11	34.81			22.88	501.2	30.	26.44	34.68	22.68	519.6	0.157	
76.	23.89	34.86			23.59	434.1	50.	26.11	34.81	22.88	501.2	0.260	
101.	22.89	35.14			24.09	387.1	75.	23.98	34.86	23.56	436.9	0.378	
126.	22.53	35.16			24.21	376.8	100.	22.91	35.13	24.08	388.5	0.482	
151.	20.89	34.98			24.53	347.1	150.	20.96	34.99	24.51	348.5	0.668	
176.	19.89	35.06			24.86	316.7	200.	17.66	34.76	25.19	285.2	0.827	
192.	18.68	34.88			25.03	300.4	250.	12.33	34.28	25.98	209.5	0.952	
225.	14.37	34.42			25.68	238.3	300.	10.42	34.24	26.30	179.4	1.050	
252.	12.21	34.27			26.00	207.7	400.	8.35	34.34	26.72	140.5	1.211	
278.	11.06	34.22			26.18	191.1	500.	7.97	34.42	26.84	130.5	1.348	
303.	10.35	34.24			26.32	177.9	600.	6.34	34.44	27.09	106.9	1.468	
404.	8.30	34.34			26.73	139.5	700.	5.46	34.46	27.21	95.1	1.570	
505.	7.96*	34.42			26.85	130.2	800.	5.07	34.48	27.28	89.8	1.664	
606.	6.23	34.44			27.10	105.5	1000.	4.41	34.52	27.38	80.5	1.836	
807.	5.06	34.48			27.28	89.6	1200.	3.76	34.54	27.47	72.8	1.991	
1007.	4.39	34.52			27.38	80.3	1500.	3.01	34.58	27.57	62.9	2.198	
1207.	3.74	34.54			27.47	72.5							
1505.	3.00	34.58			27.57	62.7							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.13
TEMPERATURE ERROR TERM AT 700. METERS IS 0.10ΔFROM ST DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL		8, STATION		4, 16- 2N LAT, 157- 1W LONG, SEP. 3, 1964, 1400 G.C.T.		3, 1964, 1400 G.C.T.							
DRY BULB 23.0		WET BULB 26.2		WIND SPEED 22, DIR. 06		BAR. 13		WEATHER C2		VIS. 4		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	26.74	34.30			22.30	554.8	0.	26.74	34.30	22.30	554.8	0.000	
10.	26.77	34.30			22.29	556.1	10.	26.77	34.30	22.29	556.1	0.056	
20.	26.73	34.34			22.33	552.4	20.	26.73	34.34	22.33	552.4	0.112	
30. ^Δ	26.50	34.44			22.48	538.7	30.	26.50	34.44	22.48	538.7	0.167	
50. ^Δ	26.50	34.62			22.61	526.5	50.	26.50	34.62	22.61	526.5	0.274	
76.	26.32	34.81			22.81	508.5	75.	26.36	34.81	22.80	509.9	0.405	
101.	23.12	34.72			23.71	423.7	100.	23.29	34.72	23.66	428.0	0.523	
125.	18.88	34.76			24.89	311.7	150.	16.11	34.55	25.40	263.6	0.697	
151.	16.02	34.54			25.41	262.4	200.	11.83	34.22	26.04	203.0	0.815	
176.	13.18	34.26			25.80	224.9	250.	10.89	34.43	26.37	172.2	0.909	
192.	12.19	34.22			25.97	209.5	300.	10.45	34.57	26.56	155.5	0.992	
224.	11.12	34.28			26.21	186.5	400.	9.22	34.60	26.79	134.3	1.138	
252.	10.89	34.44			26.38	171.4	500.	8.19	34.56	26.92	123.1	1.268	
288.	10.73	34.52			26.47	163.5	600.	7.12	34.50	27.03	113.2	1.387	
303.	10.38	34.58			26.58	153.4	700.	6.27	34.49	27.14	103.3	1.497	
403.	9.20	34.60			26.75	134.4	800.	5.60	34.51	27.24	94.4	1.597	
505.	8.14	34.56			26.93	122.6	1000.	4.62	34.52	27.36	82.9	1.776	
605.	7.07	34.50			27.04	112.8	1200.	3.85	34.55	27.46	73.3	1.934	
805.	5.57	34.51			27.24	94.0							
983.	4.69	34.52			27.35	83.8							
1117.	4.15	34.54			27.43	76.8							
1305.	3.52	34.56			27.51	69.1							

CROMWELL		8, STATION 5, 14-30N LAT, 157- 1W LONG, SEP. 3, 1964, 2400 G.C.T.										3, 1964, 2400 G.C.T.	
DRY BULB 26.2		WET BULB 24.7		WIND SPEED 16, DIR. 14		BAR. 12		WEATHER 51		VIS. 4		CLOUD TYPE 0, COVER 8	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	26.76	34.40			22.36	548.2	0.	26.76	34.40	22.36	548.2	0.000	
10.	26.72	34.31			22.31	553.9	10.	26.72	34.31	22.31	553.9	0.056	
30. ^Δ	26.68	34.36			22.36	549.5	20.	26.70	34.32	22.32	553.2	0.111	
50. ^Δ	26.60	34.40			22.41	545.4	30.	26.68	34.36	22.36	549.9	0.167	
72.	24.81	34.61			23.13	478.2	50.	26.60	34.40	22.41	545.4	0.277	
96.	22.23	34.85			24.06	389.9	75.	24.49	34.64	23.25	466.7	0.405	
120.	20.36	34.98			24.67	332.4	100.	21.91	34.89	24.18	378.8	0.511	
144.	18.05	34.82			25.14	288.1	150.	17.68	34.77	25.19	283.3	0.678	
167.	16.33	34.59			25.38	266.1	200.	12.75	34.28	25.91	215.6	0.804	
181.	14.24	34.40			25.69	235.9	250.	10.17	34.35	26.43	165.8	0.900	
212.	12.14	34.26			26.01	206.1	300.	9.84	34.53	26.63	148.2	0.979	
237.	10.42	34.25			26.31	176.9	400.	8.37	34.54	26.88	125.3	1.117	
260.	10.13	34.43			26.50	159.3	500.	7.30	34.51	27.02	113.4	1.237	
283.	10.04	34.50			26.57	153.1	600.	6.48	34.51	27.12	104.0	1.347	
375.	8.68	34.55			26.64	129.3	700.	5.84	34.51	27.20	96.5	1.448	
467.	7.62	34.52			26.97	117.1	800.	5.33	34.52	27.28	90.0	1.543	
553.	6.84	34.51			27.08	108.0	1000.	4.56	34.56	27.39	79.7	1.714	
743.	5.61	34.51			27.24	93.8	1200.	3.83	34.57	27.49	71.1	1.867	
928.	4.81	34.55			27.36	82.6							
1112.	4.18	34.56			27.44	75.7							
1334.	3.36	34.58			27.54	65.9							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.14

CROMWELL		8, STATION 6, 13- IN LAT, 157- 4W LONG, SEP. 4, 1964, 1200 G.C.T.											
DRY BULB 26.0		WET BULB 24.5		WIND SPEED 18, DIR. 20		BAR. 12		WEATHER C1		VIS. 8		CLCUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	ELTA	OYN.OPTN.	
0.	26.93	34.18			22.14	569.2	0.	26.93	34.18	22.14	569.2	0.000	
11.	26.96	34.19			22.14	569.8	10.	26.96	34.19	22.14	570.2	0.057	
31.	26.84	34.46			22.38	547.6	20.	26.93	34.28	22.22	562.5	0.114	
50.	26.56	34.82			22.74	514.0	30.	26.85	34.44	22.37	549.2	0.170	
77.	22.92	35.02			23.99	395.6	50.	26.56	34.82	22.74	514.0	0.278	
102.	21.39	35.04			24.44	354.0	75.	23.22	35.01	23.90	404.2	0.393	
127.	19.04	34.91			24.96	304.7	100.	21.49	35.04	24.41	356.4	0.489	
153.	16.80	34.65			25.31	271.8	150.	17.08	34.68	25.27	275.6	0.648	
192.	11.52	34.24			26.11	195.8	200.	11.03	34.24	26.19	187.7	0.765	
226.	10.24	34.31			26.35	169.2	250.	9.98	34.41	26.51	158.1	0.852	
253.	9.96	34.42			26.53	157.0	300.	9.12	34.44	26.68	142.6	0.928	
279.	9.59	34.46			26.62	148.5	400.	8.03	34.52	26.91	122.4	1.062	
304.	9.03	34.44			26.70	141.5	500.	7.00	34.52	27.06	108.6	1.178	
404.	8.01	34.52			26.92	121.8	600.	6.16	34.50	27.16	100.0	1.284	
506.	6.94*	34.52			27.07	107.9	700.	5.55	34.51	27.25	92.3	1.381	
606.	6.12	34.50			27.16	99.6	800.	5.06	34.54	27.32	85.3	1.471	
808.	5.03	34.54			27.33	84.8	1000.	4.21	34.56	27.44	75.1	1.633	
1008.	4.18	34.56			27.44	74.7	1200.	3.53	34.58	27.52	67.1	1.777	
1208.	3.51	34.58			27.52	66.8	1500.	2.81	34.62	27.62	57.6	1.966	
1506.	2.80	34.62			27.62	57.4							

ΔFROM 8T DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		8, STATION		7, 11-30N LAT, 157- CW LONG, SEP.		4, 1964, 2300 G.C.T.							
DRY BULB 28.4		WET BULB 24.5		WIND SPEED 08, DIR. 18		BAR. 14		WEATHER 02		VIS. 8		CLOUD TYPE 2, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	27.32	33.93			21.83	599.1	C.	27.32	33.93	21.83	599.1	0.000	
9.	27.10	33.99			21.95	588.4	10.	27.10	33.99	21.95	588.1	0.060	
30.	26.28	34.17			22.34	551.5	20.	26.88	34.06	22.07	577.0	0.118	
45.	23.94	34.50			23.30	460.3	30.	26.28	34.17	22.34	551.5	0.175	
71.	20.64	34.88			24.52	345.0	50.	23.34	34.62	23.56	435.5	0.275	
93.	16.33	34.54			25.34	267.5	75.	19.86	34.83	24.69	328.7	0.371	
116.	13.22	34.37			25.88	216.1	100.	15.22	34.47	25.54	248.6	0.444	
140.	11.72	34.28			26.10	195.2	150.	11.56	34.38	26.21	185.1	0.553	
163.	11.47	34.53			26.34	172.9	200.	10.68	34.64	26.58	151.5	0.638	
176.	11.16	34.57			26.43	164.8	250.	10.00	34.68	26.72	138.3	0.711	
207.	10.56	34.66			26.61	148.5	300.	9.46	34.65	26.79	133.1	0.779	
232.	10.26	34.68			26.68	142.5	400.	8.51	34.62	26.91	122.3	0.908	
254.	9.94	34.68			26.73	137.6	500.	7.56	34.53	26.99	116.3	1.029	
277.	9.70	34.66			26.76	135.6	600.	6.64	34.45	27.06	110.0	1.143	
367.	8.78	34.62			26.88	125.6	700.	6.05	34.51	27.18	99.2	1.249	
459.	8.01	34.59			26.97	117.6	800.	5.50	34.54	27.28	90.6	1.344	
549.	7.02	34.45			27.00	114.9	1000.	4.51	34.55	27.39	79.6	1.517	
732.	5.90	34.54			27.22	95.3	1200.	3.75	34.57	27.49	70.5	1.669	
915.	4.89	34.54			27.35	84.2							
1103.	4.10	34.56			27.45	74.6							
1394.	3.24	34.60			27.57	63.4							

TEMPERATURE ERROR TERM AT 20. METERS IS 0.10

CROMWELL		8, STATION		7A, 9-59N LAT, 153-59W LONG, SEP.	5, 1964, 1800 G.C.T.	BAR. 13		WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 4			
DRY BULB 25.9		WET BULB 23.6		WIND SPEED 06, DIR. 14									
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	27.19	33.52	4.40	0.87	21.57	624.6	C.	27.19	33.52	21.57	624.6	0.000	
10.	27.36	33.78	4.28		21.71	611.5	10.	27.36	33.78	21.71	611.5	0.062	
20.	27.20	33.85			21.81	602.0	20.	27.20	33.85	21.81	602.0	0.123	
30.	27.08	33.88			21.87	596.6	30.	27.08	33.88	21.87	596.6	0.184	
50.	21.05	34.54	4.33	0.54	24.15	379.4	50.	21.05	34.54	24.15	379.4	0.282	
76.	14.76	34.44	3.42	1.07	25.61	240.7	75.	14.95	34.45	25.58	243.7	0.361	
101.	12.37	34.44	1.45	2.19	26.10	194.4	100.	12.42	34.44	26.09	195.5	0.416	
125.	11.59	34.70	0.27	2.59	26.45	161.7	150.	11.06	34.70	26.55	152.6	0.504	
151.	11.04	34.70	0.23	2.65	26.55	152.5	200.	10.37	34.71	26.68	141.3	0.578	
175.	10.66	34.70	0.20	2.61	26.62	146.5	250.	9.93	34.70	26.75	135.8	0.647	
190.	10.47	34.71	0.17	2.79	26.66	142.9	300.	9.53	34.70	26.82	130.3	0.715	
224.	10.17	34.71	0.20	2.76	26.72	138.6	400.	8.54	34.63	26.92	121.7	0.842	
251.	9.92	34.70	0.31	2.52	26.75	135.7	500.	7.57	34.59	27.04	111.7	0.960	
276.	9.68	34.68	0.12	2.42	26.78	133.8	600.	6.64	34.55	27.14	102.8	1.068	
300.	9.53	34.70	0.39	2.73	26.82	130.3	700.	5.91	34.54	27.22	94.9	1.168	
400.	8.54	34.63	0.37	3.04	26.92	121.7	800.	5.33	34.55	27.30	87.9	1.260	
502.	7.55	34.59	0.35	2.46	27.04	111.5	1000.	4.41	34.57	27.42	76.8	1.427	
603.	6.61	34.55	0.56	2.66	27.14	102.5	1200.	3.73	34.59	27.51	68.7	1.574	
802.	5.32	34.55	0.62	2.57	27.30	87.7							
1001.	4.41	34.57	0.94	2.76	27.42	76.8							
1200.	3.73	34.59	1.34	3.32	27.51	68.7							
1499.	2.99	34.62	1.65	2.56	27.60	59.6							

CROMWELL		8, STATION		8, 11-35N LAT, 154- CW LONG, SEP.	6, 1964, 0300 G.C.T.	BAR. 12		WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 4			
DRY BULB 27.2		WET BULB 23.8		WIND SPEED 10, DIR. 03									
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	27.48	33.66			21.58	623.5	C.	27.48	33.66	21.58	623.5	0.000	
10.	27.14	33.69	4.33	0.31	21.71	611.3	10.	27.14	33.69	21.71	611.3	0.062	
20.	26.92	33.75			21.82	600.6	20.	26.92	33.75	21.82	600.6	0.123	
30.	26.74	33.77			21.90	594.1	30.	26.74	33.77	21.90	594.1	0.183	
51.	25.18	34.47	4.57	0.40	22.91	498.2	50.	25.36	34.43	22.83	505.9	0.294	
67.	19.00	34.56	4.09	1.12	24.70	327.1	75.	17.17	34.57	25.17	283.3	0.394	
77.	16.78	34.57	3.65	0.64	25.26	274.8	100.	12.63	34.31	25.95	208.8	0.456	
92.	13.68	34.37	2.27	1.83	25.75	224.4	150.	11.31	34.65	26.46	161.1	0.549	
102.	12.42	34.30	2.32	1.78	25.88	205.6	200.	10.62	34.71	26.63	146.1	0.626	
117.	11.32	34.28	2.56	1.79	26.18	187.6	250.	9.81	34.65	26.73	137.2	0.698	
127.	11.02	34.30	2.24	2.16	26.25	181.1	300.	9.09	34.62	26.82	129.3	0.765	
153.	11.38	34.70	0.19	2.43	26.49	158.6	400.	8.02	34.56	26.95	118.6	0.890	
192.	10.76	34.71	0.22	2.67	26.61	147.9	500.	6.83	34.52	27.09	106.1	1.003	
253.	9.76	34.65	0.25	2.72	26.74	136.8	600.	6.03	34.52	27.19	96.8	1.106	
278.	9.40	34.62	0.31	2.34	26.78	133.7	700.	5.38	34.53	27.28	88.7	1.200	
304.	9.04	34.62	0.28	2.47	26.83	128.4	800.	4.85	34.55	27.36	81.8	1.286	
405.	7.97	34.56	0.34	2.64	26.95	118.3	1000.	4.11	34.57	27.45	73.1	1.442	
506.	6.76	34.52	0.39	2.87	27.09	105.4	1200.	3.42	34.59	27.54	64.8	1.582	
606.	5.99	34.52	0.47	3.01	27.20	96.3							
808.	4.81	34.55	0.77	2.88	27.36	81.3							
1009.	4.08	34.57	1.07	3.06	27.46	72.8							
1174.	3.45	34.59	1.39	3.15	27.54	65.1							
1421.	2.88	34.62	1.70	2.85	27.61	57.8							

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 26.3		STATION WET BULB 23.2		9, 13- 3N LAT, 154-10W LONG, SEP. WIND SPEED 14, CIR. C5		6, 1964, 1200 G.C.T. BAR. 13		WEATHER 02		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0. ^Δ	27.15	33.59			21.63	618.4	0.	27.15	33.59	21.63	618.4	0.000	
10. ^Δ	27.15	33.59	4.21	0.45	21.63	618.8	10.	27.15	33.59	21.63	618.8	0.062	
30.	26.30	34.03			22.23	562.2	20.	26.86	33.77	21.86	597.1	0.124	
52.	24.14	34.50	4.63	0.72	23.24	466.2	30.	26.30	34.03	22.23	562.2	0.182	
68.	22.38	34.66	4.92	0.36	23.87	406.6	50.	24.37	34.46	23.15	475.3	0.286	
78.	21.6P	34.72	4.73	0.44	24.11	383.9	75.	21.88	34.70	24.05	390.4	0.395	
92.	20.42	34.83	4.34	0.47	24.54	343.7	100.	19.62	34.81	24.74	325.1	0.486	
102.	19.39	34.80	4.21	0.63	24.79	320.4	150.	12.70	34.31	25.93	211.7	0.621	
117.	16.74	34.54	3.45	1.76	25.24	277.4	200.	11.09	34.63	26.49	159.4	0.714	
127.	15.46	34.44	3.44	1.35	25.46	256.9	250.	10.55	34.68	26.62	148.1	0.792	
154.	12.31	34.30	2.06	2.39	26.01	204.9	300.	9.88	34.65	26.72	139.6	0.864	
193.	11.19	34.61	0.51	2.69	26.46	162.8	400.	8.65	34.59	26.88	126.1	0.998	
254.	10.52	34.67	0.19	2.59	26.62	148.1	500.	7.57	34.54	27.00	115.2	1.120	
280.	10.15	34.66	0.14	2.75	26.68	143.1	600.	6.69	34.52	27.11	105.7	1.232	
305.	9.81	34.65	0.23	2.74	26.73	138.7	700.	5.97	34.52	27.20	97.0	1.334	
405.	8.59	34.59	0.43	3.02	26.88	125.5	800.	5.38	34.54	27.29	89.4	1.429	
506.	7.51	34.54	0.49	3.25	27.01	114.7	1000.	4.44	34.56	27.41	77.9	1.598	
607.	6.63	34.52	0.47	3.16	27.11	105.1	1200.	3.79	34.58	27.50	70.2	1.748	
808.	5.34	34.54	0.65	2.68	27.29	88.8	1500.	3.00	34.60	27.59	61.3	1.948	
1009.	4.40	34.56	1.06	2.88	27.42	77.5							
1210.	3.76	34.58	1.40		27.50	69.9							
1510.	2.98	34.60	1.65	2.98	27.55	61.0							

CROMWELL DRY BULB 26.7		STATION WET BULB 23.3		10, 14-30N LAT, 154- 5W LONG, SEP. WIND SPEED 14, CIR. C6		6, 1964, 2000 G.C.T. BAR. 15		WEATHER 02		VIS. 8		CLOUD TYPE 1, COVER 1	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	26.80	33.84	4.59	0.28	21.93	589.7	0.	26.80	33.84	21.93	589.7	0.000	
10.	26.72	33.83	4.71	0.41	21.95	588.4	10.	26.72	33.83	21.95	588.4	0.059	
30.	26.64	33.84			21.58	586.1	20.	26.67	33.83	21.97	587.1	0.119	
50.	26.60	33.85			22.00	584.9	30.	26.64	33.84	21.98	586.1	0.178	
77.	23.99	34.48	4.87	0.73	23.28	464.1	50.	26.60	33.85	22.00	584.9	0.296	
102.	21.43	34.74	4.93	0.35	24.20	376.7	75.	24.23	34.43	23.16	474.8	0.429	
127.	20.28	35.02	4.58	0.44	24.72	327.7	100.	21.61	34.72	24.14	382.5	0.537	
152.	16.61	34.60	5.04	0.79	25.32	271.2	150.	16.94	34.64	25.27	275.3	0.703	
177.	13.60	34.34	2.73	1.69	25.78	227.3	200.	11.95	34.36	26.12	194.7	0.821	
226.	12.37	34.32	2.19	2.07	26.01	205.5	250.	10.85	34.58	26.49	160.6	0.911	
253.	11.17	34.54	0.79	2.57	26.41	168.3	300.	10.61	34.68	26.62	149.8	0.989	
279.	10.95	34.68	0.68	2.75	26.50	160.2	400.	8.85	34.57	26.82	131.4	1.131	
304.	10.53	34.68	0.32	2.70	26.55	155.4	500.	7.85	34.56	26.97	118.1	1.257	
404.	7.79	34.56	0.23	2.25	26.63	148.7	600.	7.00	34.52	27.07	109.3	1.372	
506.	7.80*	34.56	0.42	2.52	26.83	130.8	700.	6.21	34.52	27.17	100.3	1.478	
606.	6.95	34.53	0.38	3.00	26.98	117.5	800.	5.53	34.53	27.26	92.0	1.575	
808.	5.48	34.53	0.63	3.00	27.08	108.9	1000.	4.61	34.55	27.38	80.8	1.750	
1008.	4.58	34.55	0.82	2.75	27.27	91.4	1200.	3.90	34.57	27.48	72.3	1.905	
1209.	3.87	34.57	1.21	3.39	27.39	80.5	1500.	3.04	34.60	27.58	61.8	2.109	
1509.	3.02	34.60	1.62	2.83	27.55	61.5							

CROMWELL DRY BULB 26.3		STATION WET BULB 23.6		11, 16- 0N LAT, 153-58W LONG, SEP. WIND SPEED 16, CIR. C5		7, 1964, 0500 G.C.T. BAR. 13		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	26.37	34.68	4.52		22.70	516.3	0.	26.37	34.68	22.70	516.3	0.000	
9.	26.32	34.68	4.62		22.71	515.2	10.	26.31	34.68	22.72	515.0	0.052	
30.	26.20	34.68			22.75	512.4	20.	26.26	34.68	22.73	513.8	0.104	
50.	26.06	34.68			22.75	509.0	30.	26.20	34.68	22.75	512.4	0.155	
70.	25.12	34.68	4.74	0.39	23.08	482.1	50.	26.06	34.68	22.79	509.0	0.258	
92.	22.95	34.77	4.94	0.43	23.75	415.1	75.	24.64	34.69	23.24	467.3	0.381	
116.	21.65	34.92	4.80	0.39	24.27	370.1	100.	22.45	34.82	23.97	398.4	0.490	
139.	20.41	35.04	4.48		24.70	330.0	150.	19.85	35.03	24.84	317.3	0.671	
162.	19.09	34.95	4.29	0.53	24.98	304.3	200.	15.69	34.54	25.49	256.5	0.815	
177.	17.66	34.76	4.04	1.36	25.19	284.4	250.	11.98	34.25	26.03	205.2	0.932	
208.	15.03	34.48	3.75	0.70	25.58	247.2	300.	9.72	34.21	26.40	169.8	1.026	
232.	12.98	34.29	3.61	1.72	25.87	220.3	400.	7.88	34.35	26.80	132.7	1.179	
256.	11.70	34.24	3.54	2.96	26.08	200.6	500.	6.87	34.43	27.01	113.1	1.303	
279.	10.46	34.20	3.23	1.58	26.27	182.2	600.	6.12	34.47	27.14	101.6	1.411	
370.	8.32	34.31	1.39	3.16	26.70	141.4	700.	5.51	34.49	27.23	93.6	1.510	
463.	7.20	34.41	0.68	3.22	26.95	119.1	800.	5.05	34.51	27.30	87.4	1.601	
554.	6.45	34.46	0.60	2.51	27.09	106.3	1000.	4.36	34.55	27.41	77.6	1.768	
740.	5.30	34.49	0.70	3.22	27.26	91.2	1200.	3.75	34.58	27.50	69.9	1.918	
925.	4.62	34.54	0.85	3.03	27.38	80.9							
1110.	4.00	34.56	1.13		27.46	73.4							
1394.	3.25	34.59	1.46	3.10	27.56	64.3							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.10

FROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA									
CRCM WELL		8, STATION		12, 17-31N LAT, 153-58W LONG, SEP.		7, 1964, 1500 G.C.T.											
CRY BULB 27.2		WET BULB 24.0		WIND SPEED 21, DIR. 08		BAR. 14		WEATHER 50		VIS. 6		CLCUD TYPE		COVER			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH.					
C.	26.10	34.84	4.06	0.35	22.90	496.7	C.	26.10	34.84	22.90	496.7	0.000					
10.	26.09	34.84	4.30	0.37	22.91	496.8	10.	26.09	34.84	22.91	496.8	0.050					
30. ^Δ	26.00	34.84			22.93	494.9	20.	26.06	34.84	22.91	496.4	0.100					
50.	25.76	34.85			23.02	487.9	30.	26.00	34.84	22.93	494.9	0.150					
76.	23.76	34.91		0.35	23.66	426.9	50.	25.76	34.85	23.02	487.9	0.249					
101.	22.74	35.06	4.20	0.23	24.07	388.7	75.	23.85	34.91	23.64	429.5	0.365					
126.	21.73	35.08		0.52	24.37	361.0	100.	22.77	35.05	24.06	390.0	0.468					
151.	20.53	35.12	4.01	0.30	24.73	327.7	150.	20.58	35.12	24.72	329.1	0.649					
176.	18.89	34.96	4.74	0.39	25.04	299.1	200.	17.15	34.75	25.31	273.6	0.801					
190.	17.90	34.85		0.48	25.20	283.9	250.	12.24	34.21	25.95	212.6	0.923					
224.	15.06	34.50	4.28	0.63	25.59	246.9	300.	9.81	34.15	26.34	175.8	1.021					
251.	12.14	34.20	4.40	1.08	25.96	211.5	400.	7.40	34.16	26.72	139.4	1.100					
276.	10.73	34.12	4.08	1.55	26.16	192.6	500.	6.80	34.34	26.94	119.5	1.311					
302.	9.75	34.15	3.48	1.60	26.35	174.5	600.	5.96	34.42	27.12	103.3	1.424					
402.	7.37	34.16	2.01	2.61	26.73	139.0	700.	5.33	34.45	27.22	94.1	1.523					
502.	6.80	34.34	0.86	3.10	26.55	119.2	800.	4.86	34.46	27.28	88.5	1.616					
602.	5.94	34.42	0.74	3.08	27.12	103.0	1000.	4.23	34.52	27.40	78.2	1.784					
803.	4.85	34.46	0.83		27.25	88.4	1200.	3.63	34.55	27.49	70.4	1.935					
1002.	4.22	34.52	1.09	2.89	27.40	78.1											
1202.	3.62	34.55	1.25	2.95	27.45	70.3											
1486.	2.88	34.60	1.67	2.63	27.60	59.7											

CRCM WELL		8, STATION		13, 19- ON LAT, 153-58W LONG, SEP.		7, 1964, 2400 G.C.T.									
CRY BULB 27.0		WET BULB 23.2		WIND SPEED 18, DIR. 06		BAR. 15		WEATHER 01		VIS. 8		CLCUD TYPE 8, COVER 4			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	CYN.OPTH.			
C.	25.64	34.83	4.68	0.25	23.04	483.8	C.	25.64	34.83	23.04	483.8	0.000			
10.	25.61	34.82	4.63	0.27	23.04	484.0	10.	25.61	34.82	23.04	484.0	0.049			
30. ^Δ	25.54	34.82			23.06	482.7	20.	25.58	34.82	23.05	483.5	0.097			
50. ^Δ	25.48	34.81			23.07	482.5	30.	25.54	34.82	23.06	482.7	0.146			
75.	25.00	34.81			23.22	469.5	50.	25.48	34.81	23.07	482.5	0.243			
102.	21.89	34.86	4.76	0.90	24.16	380.3	75.	25.00	34.81	23.22	469.5	0.363			
126.	20.76	34.98	4.36	0.29	24.56	342.8	100.	22.13	34.85	24.09	387.1	0.471			
152.	19.37	34.90	4.27	0.40	24.87	314.4	150.	19.49	34.91	24.85	316.5	0.648			
178.	17.30	34.70	3.99	0.54	25.23	280.4	200.	15.75	34.48	25.43	262.1	0.794			
192.	16.39	34.56	3.79		25.34	270.4	250.	11.81	34.17	26.00	207.9	0.913			
226.	13.57	34.28	3.08		25.74	232.4	300.	9.80	34.18	26.36	173.2	1.009			
252.	11.68	34.16	3.72	1.43	26.02	206.0	400.	7.50	34.14	26.70	142.1	1.168			
278.	10.32	34.16	3.57	1.74	26.26	182.7	500.	5.71	34.18	26.96	116.8	1.299			
303.	9.75	34.18	2.96		26.37	172.3	600.	5.31	34.36	27.15	99.3	1.408			
404.	7.41	34.14	2.29	2.52	26.71	141.1	700.	4.99	34.45	27.27	89.5	1.503			
504.	5.66	34.16	1.09	3.61	26.97	115.9	800.	4.67	34.49	27.33	84.0	1.591			
605.	5.31	34.37	0.66	3.26	27.16	98.6	1000.	4.07	34.51	27.41	77.0	1.754			
808.	4.65	34.49	0.80	3.17	27.33	83.7	1200.	3.59	34.54	27.48	70.7	1.903			
1008.	4.05	34.51	0.99	3.33	27.41	76.8	1500.	2.82	34.58	27.59	60.6	2.103			
1208.	3.57	34.54	1.24	3.19	27.45	70.5									
1508.	2.80	34.58	1.54	2.61	27.59	60.3									

CRCM WELL		8, STATION		14, 20-32N LAT, 154- CW LONG, SEP.		8, 1964, 0500 G.C.T.											
CRY BULB 25.2		WET BULB 22.6		WIND SPEED 16, DIR. 06		BAR. 17		WEATHER 02		VIS. 7		CLCUD TYPE		COVER			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH.					
C.	25.47	34.57	4.79	0.25	22.85	497.5	C.	25.47	34.57	22.89	497.5	0.000					
11.	25.48	34.97	4.90	0.36	23.19	469.4	10.	25.48	34.94	23.17	471.2	0.049					
30.Δ	25.42	35.03			23.26	464.1	20.	25.47	35.05	23.25	463.9	0.096					
51.	25.04	35.08	4.79	1.13	23.41	450.2	30.	25.42	35.03	23.26	464.1	0.143					
77.	23.50	35.08	5.21	0.55	23.87	407.4	50.	25.07	35.08	23.40	451.2	0.235					
102.	22.55	35.16	5.08	0.14	24.20	376.4	75.	23.63	35.08	23.83	410.9	0.343					
127.	21.34	35.16	4.74	0.60	24.54	345.0	100.	22.62	35.15	24.18	378.7	0.443					
153.	20.32	35.11	4.63	0.58	24.78	323.1	150.	20.45	35.12	24.75	325.6	0.620					
177.	18.73	34.94	4.49	0.52	25.06	296.7	200.	17.71	34.82	25.22	282.2	0.774					
193.	18.08	34.86	4.52	0.44	25.16	287.5	250.	14.18	34.40	25.71	236.3	0.904					
226.	16.03	34.62	4.62	0.46	25.47	259.1	300.	11.25	34.16	26.09	199.5	1.014					
253.	13.96	34.38	4.66	0.89	25.74	233.7	400.	8.28	34.09	26.54	157.3	1.194					
279.	12.58	34.26	4.76	0.55	25.92	216.0	500.	6.23	34.10	26.83	129.3	1.339					
304.	11.00	34.14	4.13	1.32	26.13	196.5	600.	5.28	34.21	27.04	110.0	1.460					
405.	8.22	34.10	3.15	1.84	26.56	156.0	700.	4.86	34.33	27.19	96.8	1.564					
506.	6.13	34.10	1.86	3.37	26.85	127.9	800.	4.64	34.43	27.29	87.7	1.657					
606.	5.25	34.22	0.96	3.55	27.05	109.0	1000.	4.07	34.50	27.40	77.7	1.825					
808.	4.63	34.44	0.88	3.63	27.30	87.2	1200.	3.52	34.54	27.49	69.5	1.974					
1009.	4.04	34.50	1.14		27.41	77.4											
1187.	3.54	34.54	1.45	3.19	27.45	69.9											
1425.	2.99	34.58	1.50	2.59	27.57	62.1											

FROM ST DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA					
CROMWELL		R, STATION		15, 22- ON LAT, 153-58W		LCNG, SEP.		8, 1964, 1700 G.C.T.					
ERY BULB 23.8		WET BULB 22.8		WIND SPEED 18, DIR. C8		BAR. 17		WEATHER 01		VIS. 6		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
C.	25.40	34.96	4.73	C.25	23.21	467.4	C.	25.40	34.96	23.21	467.4	0.000	
11.	25.43	34.96	4.86	1.55	23.20	468.7	10.	25.43	34.96	23.20	468.6	0.047	
30.	25.43	34.97			23.21	468.7	20.	25.43	34.96	23.20	468.8	0.094	
50.	25.42	34.97			23.21	469.2	30.	25.43	34.97	23.21	468.7	0.142	
75.	24.80	34.99			23.42	450.7	50.	25.42	34.97	23.21	469.2	0.236	
97.	23.20	35.08	4.95	C.30	23.96	399.8	75.	24.80	34.99	23.42	450.7	0.352	
121.	22.41	35.15	4.84		24.24	374.0	100.	23.07	35.09	24.00	395.5	0.459	
147.	21.79	35.17	4.74	0.31	24.43	356.9	150.	21.69	35.17	24.46	354.1	0.647	
172.	20.79	35.16	4.58	0.36	24.69	332.3	200.	19.27	35.02	24.98	305.1	0.814	
186.	20.11	35.11	4.51		24.84	319.0	250.	15.52	34.54	25.52	255.0	0.955	
219.	17.95	34.85	4.48	0.73	25.19	286.0	300.	12.51	34.26	25.94	215.1	1.073	
244.	16.00	34.58	4.13	1.05	25.44	261.9	400.	9.39	34.13	26.39	172.0	1.269	
269.	14.13	34.42	4.45	1.09	25.73	234.6	500.	6.97	34.11	26.74	138.5	1.425	
294.	12.76	34.28	4.21	1.86	25.90	218.4	600.	5.79	34.24	27.00	114.0	1.553	
391.	9.66	34.14	3.85	2.46	26.36	175.5	700.	5.17	34.33	27.15	101.0	1.661	
490.	7.14	34.10	2.32	2.97	26.71	141.5	800.	4.80	34.39	27.24	92.8	1.759	
566.	5.90	34.23	0.94	3.15	26.96	116.3	1000.	4.01	34.49	27.40	78.0	1.932	
783.	4.88	34.38	0.80	3.22	27.22	94.5	1200.	3.44	34.54	27.50	68.9	2.081	
977.	4.08	34.48	1.12	3.15	27.35	79.1							
1172.	3.54	34.52	1.34	3.10	27.47	71.3							
1467.	2.93	34.58	1.48		27.58	61.6							

CROMWELL		R, STATION		16, 23-30N LAT, 153-57W		LCNG, SEP.		9, 1964, 0200 G.C.T.					
ERY BULB 24.9		WET BULB 22.1		WIND SPEED 17, DIR. C9		BAR. 18		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
C.	25.63	34.93	5.02	0.14	23.12	476.3	C.	25.63	34.93	23.12	476.3	0.000	
10.	25.63	34.93	5.00	1.05	23.12	476.7	10.	25.63	34.93	23.12	476.7	0.048	
20.	25.63	34.98			23.15	473.5	20.	25.63	34.98	23.15	473.5	0.096	
50.	25.20	35.22	5.08	0.14	23.47	444.8	30.	25.64	35.07	23.22	467.7	0.143	
76.	23.16	35.20	5.09	0.12	24.05	389.8	50.	25.20	35.22	23.47	444.8	0.235	
101.	22.11	35.22	4.91	0.18	24.37	360.1	75.	23.26	35.20	24.03	391.9	0.341	
127.	20.60	35.13	4.75	0.34	24.72	327.9	100.	22.15	35.22	24.36	361.1	0.435	
152.	19.76	35.07	4.69	0.36	24.90	311.8	150.	19.83	35.08	24.88	313.0	0.605	
177.	18.21	34.90	4.57	0.44	25.16	287.2	200.	16.81	34.71	25.36	268.9	0.752	
192.	17.32	34.78	4.54	0.68	25.29	275.5	250.	14.65	34.48	25.67	240.2	0.880	
226.	15.37	34.54	4.49		25.55	250.6	300.	12.27	34.27	25.99	210.3	0.994	
252.	14.59	34.48	4.60	0.76	25.68	239.3	400.	9.27	34.10	26.39	171.9	1.187	
278.	12.96	34.32	4.69	0.52	25.89	218.9	500.	6.67	34.04	26.73	139.5	1.344	
304.	12.18	34.26	4.69	1.08	26.00	209.1	600.	5.46	34.11	26.94	119.5	1.475	
404.	9.15	34.10	5.11	1.57	26.41	170.4	700.	4.81	34.23	27.11	103.9	1.588	
506.	6.54	34.04	2.53	2.55	26.75	137.9	800.	4.41	34.34	27.24	91.6	1.686	
605.	5.43	34.12	1.31	2.97	26.95	118.6	1000.	3.90	34.48	27.40	77.4	1.857	
807.	4.39	34.35	0.82		27.25	90.9	1200.	3.42	34.54	27.50	68.7	2.005	
1008.	3.88	34.48	1.18	3.01	27.41	77.0							
1208.	3.40	34.54	1.45	3.18	27.50	68.4							
1480.	2.84	34.58	1.56	3.06	27.59	60.6							

CROMWELL		R, STATION		17, 23-27N LAT, 151-0W		LCNG, SEP.		9, 1964, 1900 G.C.T.					
ERY BULB 22.9		WET BULB 20.2		WIND SPEED 14, DIR. C9		BAR. 20		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 5	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
C.	24.95	35.16			23.50	439.8	C.	24.95	35.16	23.50	439.8	0.000	
10.	24.92	35.17			23.51	438.6	10.	24.92	35.17	23.51	438.6	0.044	
30.	24.86	35.18			23.54	437.0	20.	24.89	35.18	23.53	437.7	0.088	
50.	24.82	35.18			23.55	436.6	30.	24.86	35.18	23.54	437.0	0.132	
77.	23.31	35.16			23.99	396.3	50.	24.82	35.18	23.55	436.6	0.220	
100.	22.16	35.22			24.36	361.4	75.	23.45	35.16	23.95	400.1	0.326	
125.	21.12	35.28			24.69	330.5	100.	22.16	35.22	24.36	361.4	0.422	
151.	20.68	35.26			24.80	321.5	150.	20.70	35.26	24.80	321.6	0.594	
177.	19.68	35.08			24.93	310.0	200.	18.16	34.89	25.17	287.6	0.747	
191.	18.72	34.96			25.08	295.5	250.	15.22	34.53	25.58	249.1	0.883	
225.	16.68	34.70			25.38	267.8	300.	12.29	34.26	25.98	210.9	0.999	
251.	15.16	34.52			25.59	248.3	400.	9.40	34.08	26.36	175.8	1.194	
277.	13.34	34.34			25.83	224.9	500.	6.99	34.04	26.69	144.1	1.355	
301.	12.25	34.26			25.99	210.3	600.	5.40	34.12	26.95	118.4	1.488	
402.	9.36	34.08			26.36	175.2	700.	4.76	34.26	27.14	101.1	1.599	
502.	6.95	34.04			26.69	143.5	800.	4.54	34.40	27.27	89.2	1.695	
602.	5.38	34.12			26.96	118.0	1000.	3.97	34.50	27.41	76.6	1.862	
802.	4.54	34.40			27.27	89.0	1200.	3.51	34.54	27.49	69.7	2.011	
1001.	3.97	34.50			27.41	76.5							
1200.	3.51	34.54			27.49	69.7							
1498.	2.87	34.57			27.58	61.8							

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		8, STATION		18, 22- ON LAT, 151- 1W LCNG, SEP. 10, 1964, 0400 G.C.T.									
DRY BULB 24.9		WET PULP 21.2		WIND SPEED 20, DIR. 07		BAR. 17		WEATHER 02		VIS. 8		CLOUD TYPE 6, COVER 5	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.08	35.07			23.39	450.1	0.	25.08	35.07	23.39	450.1	0.000	
10.	25.06	35.08			23.40	449.2	10.	25.06	35.08	23.40	449.2	0.045	
30.	25.02	35.08			23.42	448.8	20.	25.04	35.08	23.41	448.9	0.091	
50.	24.98	35.08			23.43	448.5	30.	25.02	35.08	23.42	448.8	0.136	
77.	22.63	35.14			24.17	379.1	50.	24.98	35.08	23.43	448.5	0.226	
101.	21.61	35.20			24.50	348.2	75.	22.83	35.13	24.11	384.8	0.331	
126.	21.13	35.22			24.65	335.1	100.	21.64	35.20	24.49	349.1	0.424	
151.	20.62	35.23			24.79	322.1	150.	20.64	35.23	24.79	322.6	0.593	
177.	19.67	35.10			24.94	308.3	200.	18.51	34.94	25.12	292.0	0.748	
192.	18.90	35.00			25.07	297.0	250.	14.52	34.44	25.66	240.6	0.882	
226.	16.88	34.72			25.35	270.9	300.	11.86	34.18	26.00	208.8	0.995	
252.	14.33	34.42			25.65	238.3	400.	8.73	34.04	26.43	168.1	1.185	
278.	12.96	34.28			25.86	221.8	500.	6.31	34.04	26.77	134.9	1.338	
303.	11.72	34.17			26.02	207.2	600.	5.09	34.14	27.01	112.8	1.463	
404.	8.64	34.04			26.44	166.8	700.	4.61	34.29	27.18	96.7	1.569	
506.	6.19	34.04			26.79	133.2	800.	4.43	34.43	27.31	85.4	1.661	
606.	5.05	34.15			27.02	111.7	1000.	3.94	34.51	27.42	75.4	1.824	
807.	4.43	34.44			27.32	84.7	1200.	3.40	34.54	27.50	68.4	1.970	
1008.	3.92	34.51			27.43	75.3	1500.	2.78	34.58	27.59	60.0	2.165	
1208.	3.38	34.54			27.50	68.2							
1508.	2.76	34.58			27.59	59.9							

CROMWELL		P, STATION		19, 20-30N LAT, 150-59W LCNG, SEP. 10, 1964, 1400 G.C.T.											
DRY BULB 24.5		WET BULB 20.8		WIND SPEED 22, DIR. 06		BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
0.	25.71	34.85			23.03	484.4	0.	25.71	34.85	23.03	484.4	0.000			
10.	25.69	34.86			23.05	483.5	10.	25.69	34.86	23.05	483.5	0.049			
30.	25.68	34.86			23.05	484.0	20.	25.68	34.86	23.05	483.6	0.097			
50.	25.66	34.86			23.05	484.2	30.	25.68	34.86	23.05	484.0	0.146			
75.	23.26	34.83			23.75	418.6	50.	25.66	34.86	23.05	484.2	0.244			
101.	22.14	34.89			24.12	384.7	75.	23.26	34.83	23.75	418.6	0.357			
126.	21.13	35.00			24.48	351.0	100.	22.17	34.89	24.10	385.8	0.459			
152.	20.09	35.07			24.81	320.1	150.	20.19	35.07	24.79	322.4	0.637			
176.	18.30	34.83			25.09	294.3	200.	16.29	34.55	25.36	269.1	0.786			
192.	17.02	34.64			25.25	278.8	250.	12.80	34.23	25.86	221.3	0.910			
226.	14.11	34.33			25.67	239.6	300.	10.48	34.16	26.23	186.0	1.033			
252.	12.70	34.23			25.88	219.8	400.	7.81	34.13	26.64	147.7	1.181			
277.	11.22	34.17			26.11	197.6	500.	6.88	34.31	26.91	122.5	1.317			
303.	10.41	34.16			26.25	184.8	600.	6.21	34.38	27.06	109.7	1.435			
404.	7.73	34.13			26.65	146.5	700.	5.57	34.42	27.17	99.2	1.540			
505.	6.86	34.32			26.92	121.6	800.	5.02	34.46	27.27	90.6	1.636			
605.	6.18	34.38			27.06	109.2	1000.	4.30	34.51	27.39	80.0	1.809			
806.	4.99	34.46			27.27	90.2	1200.	3.71	34.55	27.48	71.5	1.962			
1008.	4.28	34.51			27.35	79.6	1500.	2.98	34.58	27.57	62.4	2.166			
1208.	3.69	34.55			27.48	71.2									
1508.	2.96	34.58			27.58	62.3									

CROMWELL		R, STATION		20, 19- ON LAT, 150-59W LCNG, SEP. 10, 1964, 2300 G.C.T.											
DRY BULB 25.7		WET BULB 21.8		WIND SPEED 22, DIR. 05		BAR. 16		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 2			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.			
1.	25.83	34.76			22.93	494.5	0.	25.83	34.76	22.93	494.4	0.000			
11.	25.88	34.77			22.92	495.6	10.	25.88	34.77	22.92	495.6	0.050			
30. ^Δ	25.88	34.78			22.93	495.7	20.	25.89	34.78	22.92	495.8	0.100			
50. ^Δ	25.88	34.78			22.92	496.5	30.	25.88	34.78	22.93	495.7	0.150			
75. ^Δ	25.87	34.79			22.94	496.5	50.	25.88	34.78	22.93	496.5	0.250			
99.	23.08	35.01			23.94	401.6	75.	25.87	34.79	22.94	496.5	0.375			
124.	22.40	35.08			24.19	378.9	100.	23.03	35.01	23.96	400.1	0.488			
149.	21.34	35.10			24.50	350.1	150.	21.31	35.10	24.51	349.3	0.676			
173.	20.36	35.06			24.73	328.5	200.	18.51	34.85	25.05	298.5	0.840			
186.	19.41	34.96			24.90	312.3	250.	13.89	34.32	25.71	236.4	0.975			
219.	17.10	34.68			25.26	278.6	300.	10.63	34.14	26.19	190.3	1.082			
244.	14.41	34.37			25.63	243.3	400.	7.88	34.19	26.68	144.1	1.251			
270.	12.39	34.21			25.92	215.9	500.	6.60	34.23	26.89	124.1	1.386			
294.	10.90	34.14			26.14	194.5	600.	6.23	34.37	27.05	110.5	1.505			
391.	8.06	34.19			26.65	146.7	700.	5.71	34.42	27.15	101.0	1.612			
489.	6.66	34.22			26.87	126.0	800.	5.18	34.45	27.24	93.7	1.710			
586.	6.30	34.36			27.03	112.1	1000.	4.41	34.52	27.39	80.2	1.886			
789.	5.23	34.44			27.23	94.5	1200.	3.75	34.56	27.48	71.2	2.039			
976.	4.50	34.52			27.37	81.3									
1171.	3.83	34.54			27.46	73.3									
1466.	3.08	34.58			27.56	63.4									

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CRCM WELL P, STATION 21, 17-31N LAT, 151- 3W LONG, SEP. 11, 1964, C5C0 G.C.T.													
CRY BULB 25.4		WET RULE 22.2		WIND SPEED 20, DIR. C6		BAR. 16		WEATHER 02		VIS. 6		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.88	34.62			22.81	506.0	0.	25.88	34.62	22.81	506.0	C.CC0	
10.	25.86	34.61			22.80	506.5	10.	25.86	34.61	22.80	506.5	0.051	
30. Δ	25.82	34.60			22.81	506.8	20.	25.84	34.60	22.81	506.7	0.102	
50. Δ	25.80	34.60			22.82	507.0	30.	25.82	34.60	22.81	506.8	0.153	
73.	24.10	34.51			23.26	465.2	50.	25.80	34.60	22.82	507.0	0.255	
94.	22.38	34.63			23.85	409.7	75.	23.92	34.52	23.32	459.7	0.377	
118.	21.47	34.81			24.24	373.3	100.	22.08	34.67	23.97	398.7	0.485	
143.	21.06	35.01			24.50	349.1	150.	20.63	34.98	24.60	340.5	0.671	
167.	19.29	34.84			24.84	317.3	200.	16.32	34.54	25.34	270.2	0.825	
180.	18.19	34.75			25.05	297.7	250.	12.00	34.23	26.01	206.6	0.945	
212.	15.16	34.42			25.51	254.5	300.	10.01	34.28	26.41	168.7	1.040	
237.	12.87	34.27			25.87	219.8	400.	7.75	34.23	26.73	139.2	1.195	
262.	11.36	34.22			26.12	196.0	500.	6.61	34.31	26.95	118.7	1.326	
285.	10.48	34.28			26.33	176.8	600.	6.20	34.42	27.09	106.6	1.439	
379.	8.14	34.23			26.67	144.7	700.	5.70	34.45	27.18	98.4	1.543	
475.	6.76	34.28			26.91	122.7	800.	5.20	34.47	27.26	91.9	1.639	
569.	6.36	34.40			27.05	109.7	1000.	4.36	34.52	27.39	80.1	1.813	
761.	5.39	34.46			27.22	94.7	1200.	3.67	34.55	27.48	71.1	1.966	
953.	4.54	34.51			27.36	82.4							
1146.	3.84	34.53			27.45	74.0							
1441.	3.04	34.58			27.57	62.8							

CRCM WELL B, STATION 22, 16-0N LAT, 151-3W LONG, SEP. 11, 1964, 12C0 G.C.T.														
CRY BULB 25.7		WET RULE 22.9		WIND SPEED 22, DIR. C6		BAR. 15		WEATHER 01		VIS. 8		CLOUD TYPE B,		COVER 5
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.		
0.	25.99	34.62			22.77	509.3	0.	25.99	34.62	22.77	509.3	0.000		
10.	26.03	34.62			22.76	510.8	10.	26.03	34.62	22.76	510.8	0.051		
30. Δ	26.03	34.62			22.76	511.6	20.	26.04	34.62	22.76	511.4	0.103		
50. Δ	26.03	34.62			22.76	512.4	30.	26.03	34.62	22.76	511.6	0.154		
75. Δ	25.00	34.62			23.08	483.1	50.	26.03	34.62	22.76	512.4	0.258		
101.	22.52	34.60			23.75	415.9	75.	25.00	34.62	23.08	483.1	0.383		
125.	20.27	34.78			24.54	344.7	100.	22.63	34.60	23.76	418.9	0.497		
149.	17.30	34.62			25.17	285.3	150.	17.20	34.61	25.19	283.5	0.674		
176.	14.72	34.40			25.59	245.6	200.	12.73	34.30	25.93	213.6	0.799		
191.	13.35	34.30			25.80	225.7	250.	10.10	34.31	26.42	167.4	0.895		
224.	11.40	34.36			26.22	185.6	300.	9.51	34.44	26.62	149.1	0.975		
250.	10.10	34.31			26.42	167.4	400.	8.03	34.46	26.87	126.5	1.114		
276.	9.95	34.44			26.54	155.9	500.	6.96	34.47	27.03	111.8	1.234		
300.	9.51	34.44			26.62	149.1	600.	6.28	34.46	27.11	104.5	1.343		
401.	8.02	34.46			26.87	126.3	700.	5.63	34.48	27.21	96.0	1.445		
501.	6.95	34.47			27.03	111.7	800.	5.06	34.50	27.29	88.1	1.538		
601.	6.27	34.46			27.11	104.5	1000.	4.30	34.52	27.39	79.1	1.707		
800.	5.06	34.50			27.25	88.1	1200.	3.70	34.55	27.48	71.1	1.859		
1000.	4.30	34.52			27.35	79.1								
1199.	3.74	34.56			27.48	71.0								
1452.	3.05	34.58			27.57	63.0								

CRCM WELL B, STATION 23, 14-28N LAT, 150-58W LONG, SEP. 12, 1964, C3C0 G.C.T.														
CRY BULB 26.8		WET RULE 24.9		WIND SPEED 20, DIR. C6		BAR. 13		WEATHER 01		VIS. 8		CLOUD TYPE B,		COVER 2
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.		
0.	26.32	34.60			22.65	520.5	0.	26.32	34.60	22.65	520.5	0.000		
11. Δ	26.36	34.60			22.64	522.2	10.	26.36	34.60	22.64	522.1	0.053		
30. Δ	26.30	34.61			22.67	520.4	20.	26.34	34.60	22.65	521.7	0.105		
50. Δ	26.26	34.62			22.65	519.3	30.	26.30	34.61	22.67	520.4	0.158		
75. Δ	25.50	34.63			22.53	497.0	50.	26.26	34.62	22.69	519.3	0.262		
100.	22.95	34.73			23.76	418.3	75.	25.50	34.63	22.93	497.0	0.390		
124.	21.38	35.06			24.46	353.1	100.	22.95	34.73	23.76	418.3	0.506		
150.	18.93	34.92			25.00	302.1	150.	18.93	34.92	25.00	302.1	0.687		
175.	15.80	34.52			25.44	259.8	200.	12.45	34.23	25.97	209.2	0.816		
188.	13.50	34.30			25.77	228.6	250.	10.42	34.43	26.45	164.0	0.910		
222.	11.56	34.42			26.24	184.0	300.	9.96	34.56	26.64	147.6	0.989		
248.	10.44	34.42			26.44	165.0	400.	8.60	34.52	26.82	130.8	1.129		
273.	10.32	34.53			26.55	155.4	500.	7.46	34.50	26.98	116.9	1.254		
299.	9.97	34.56			26.63	147.9	600.	6.64	34.50	27.10	106.6	1.367		
397.	8.64	34.52			26.82	131.3	700.	5.85	34.50	27.20	97.3	1.470		
495.	7.51	34.50			26.97	117.4	800.	5.17	34.50	27.28	89.4	1.564		
594.	6.69	34.50			27.09	107.2	1000.	4.26	34.52	27.40	78.4	1.734		
791.	5.22	34.50			27.27	90.0	1200.	3.58	34.55	27.50	69.5	1.884		
989.	4.30	34.52			27.35	79.0								
1186.	3.66	34.56			27.49	69.9								
1482.	2.92	34.59			27.59	60.9								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.20

Table 1.-Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 8, STATION 24, 12-57N LAT, 151-1W LONG, SEP. 12, 1964, 1200 G.C.T. CRY BULB 26.0 WET PCLR 24.4 WIND SPEED 10, DIR. C3 BAR. 13 WEATHER 02 VIS. 8 CLOUD TYPE , COVER												
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.CPTH.
0.	26.56	33.58			21.81	601.2	0.	26.56	33.58	21.81	601.2	0.000
10.	26.65	33.63			21.82	600.7	10.	26.65	33.63	21.82	600.7	0.061
20.	26.65	33.65			21.84	599.6	20.	26.65	33.65	21.84	599.6	0.121
30.0	26.64	33.68			21.86	597.6	30.	26.64	33.68	21.86	597.6	0.181
51.	22.88	34.66			23.73	419.5	50.	23.09	34.61	23.63	429.1	0.285
77.	21.51	34.90			24.30	366.4	75.	21.57	34.90	24.28	367.6	0.385
102.	19.32	35.00			24.96	304.2	100.	19.56	35.01	24.90	309.6	0.470
127.	14.27	34.35			25.66	237.7	150.	12.12	34.31	26.05	200.2	0.599
152.	12.03	34.33			26.08	197.5	200.	11.45	34.70	26.48	160.7	0.690
177.	11.71	34.65			26.35	168.8	250.	10.46	34.66	26.63	147.5	0.767
192.	11.58	34.70			26.45	163.1	300.	9.61	34.62	26.74	137.7	0.839
226.	10.94	34.68			26.56	154.0	400.	8.43	34.57	26.89	124.1	0.971
253.	10.40	34.66			26.64	146.8	500.	7.33	34.54	27.03	111.9	1.091
279.	9.92	34.61			26.68	142.9	600.	6.43	34.52	27.14	102.1	1.199
304.	9.55	34.62			26.75	136.6	700.	5.72	34.52	27.23	94.0	1.298
405.	8.38	34.57			26.90	123.7	800.	5.15	34.53	27.31	87.1	1.389
506.	7.27	34.54			27.04	111.2	1000.	4.23	34.55	27.42	76.1	1.554
607.	6.37	34.52			27.15	101.5	1200.	3.61	34.58	27.51	68.1	1.700
808.	5.11	34.53			27.31	86.6						
1009.	4.20	34.55			27.43	75.7						
1209.	3.59	34.58			27.52	67.8						
1478.	2.87	34.62			27.62	58.1						

CROMWELL 8, STATION 25, 11-27N LAT, 151-0W LONG, SEP. 12, 1964, 2100 G.C.T.													
DRY BULB 27.2		WET BULB 24.0		WIND SPEED 08, DIR. 21		BAR. 15		WEATHER 02		VIS. 9		CLOUD TYPE 1, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPIM.	
0.	27.21	33.27			21.37	643.2	0.	27.21	33.27	21.37	643.2	0.000	
10.	26.89	33.29			21.49	632.4	10.	26.89	33.29	21.49	632.4	0.064	
20.	26.84	33.31			21.52	629.9	20.	26.84	33.31	21.52	629.9	0.128	
30.	25.80	33.61			22.07	577.5	30.	25.80	33.61	22.07	577.5	0.189	
51.	14.26	34.39			25.68	233.4	50.	14.85	34.36	25.53	247.9	0.272	
77.	12.00	34.44			26.17	187.0	75.	11.91	34.45	26.20	184.4	0.326	
101.	11.47	34.59			26.39	167.0	100.	11.48	34.58	26.38	167.6	0.371	
126.	10.98	34.66			26.53	153.9	150.	10.62	34.66	26.60	148.0	0.450	
152.	10.59	34.66			26.60	147.7	200.	9.98	34.65	26.70	139.0	0.522	
178.	10.29	34.66			26.66	143.2	250.	9.50	34.64	26.77	133.4	0.591	
192.	10.08	34.66			26.69	140.0	300.	8.98	34.61	26.84	127.8	0.657	
226.	9.70	34.63			26.73	136.7	400.	7.66	34.56	27.00	113.5	0.779	
252.	9.49	34.64			26.78	133.1	500.	6.67	34.54	27.12	102.6	0.888	
278.	9.28	34.64			26.81	130.3	600.	5.85	34.52	27.21	94.3	0.987	
303.	8.93	34.61			26.84	127.4	700.	5.23	34.53	27.30	87.0	1.079	
404.	7.61	34.56			27.01	112.9	800.	4.76	34.55	27.37	80.7	1.164	
505.	6.63	34.54			27.13	102.1	1000.	4.04	34.57	27.46	72.3	1.318	
605.	5.81	34.52			27.22	93.9	1200.	3.45	34.59	27.54	65.3	1.458	
806.	4.74	34.55			27.37	80.4							
1008.	4.02	34.57			27.46	72.0							
1208.	3.43	34.59			27.54	65.1							
1498.	2.80	34.62			27.62	57.3							

TEMPERATURE ERROR TERM AT 50. METERS IS 0.16
TEMPERATURE ERROR TERM AT 75. METERS IS 0.14

CROMWELL 8, STATION 26, 9-58N LAT, 147-58W LONG, SEP. 13, 1964, 1600 G.C.T. DRY BULB 26.9 WET BULB 24.3 WIND SPEED 13, DIR. C5 BAR. 13 WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 2												
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CYN.CPTH.
0.	27.20	32.98	5.01	0.34	21.16	663.8	0.	27.20	32.98	21.16	663.8	0.000
9. _Δ	27.27	33.10	4.90	0.39	21.23	657.7	10.	27.27	33.11	21.23	656.8	0.067
20. _Δ	27.20	33.22			21.34	647.3	20.	27.20	33.22	21.34	647.3	0.132
30. _Δ	27.08	33.33			21.46	636.1	30.	27.08	33.33	21.46	636.1	0.197
38.	23.72	34.47	5.41	0.55	23.34	456.0	50.	22.16	34.63	23.91	402.0	0.301
47.	22.47	34.63	5.35	0.50	23.83	410.4	75.	14.19	34.40	25.71	231.6	0.381
56.	21.16	34.59	5.07	0.53	24.16	378.9	100.	12.60	34.48	26.09	195.9	0.435
65.	17.67	34.47	4.21	1.12	24.98	300.9	150.	11.23	34.73	26.54	153.8	0.523
71.	15.06	34.42	3.09	1.56	25.53	248.3	200.	10.75	34.74	26.63	145.9	0.599
96.	12.77	34.44	1.63	2.29	26.02	201.8	250.	10.29	34.72	26.70	140.5	0.671
119.	12.05	34.66	0.64	2.39	26.33	172.8	300.	9.88	34.71	26.77	135.1	0.740
143.	11.34	34.72	0.43	2.68	26.51	156.2	400.	9.18	34.67	26.85	129.0	0.874
181.	10.93	34.74	0.41	2.69	26.60	148.4	500.	8.46	34.64	26.95	121.2	1.000
238.	10.40	34.72	0.42	2.66	26.68	142.0	600.	7.46	34.58	27.04	112.8	1.118
286.	9.99	34.72	0.42	2.52	26.75	136.2	700.	6.50	34.55	27.15	102.7	1.227
381.	9.30	34.67	0.41	2.81	26.83	130.4	800.	5.71	34.54	27.25	93.7	1.326
477.	8.67	34.66	0.40	3.11	26.92	123.0	1000.	4.70	34.56	27.38	81.5	1.504
572.	7.75	34.59	0.36	3.06	27.01	115.6	1200.	3.96	34.58	27.48	72.5	1.660
764.	5.55	34.54	0.63	2.50	27.22	96.4						
956.	4.89	34.55	1.00	3.23	27.35	83.9						
1148.	4.17	34.58	1.38	3.22	27.46	74.4						
1441.	3.36	34.59	1.67	3.10	27.55	66.0						

TEMPERATURE ERROR TERM AT 75. METERS IS 0.27

-INTERPOLATED DATA

CROMWELL 8, STATION 29, 14-28N LAT, 147-58W LONG, SEP. 14, 1964, 1900 G.C.T.													
CRY BULB 26.3		WET BULB 24.8		WIND SPEED 20, DIR. 06		BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.DPTH.	
C. Δ	26.78	33.73			21.85	597.0	C.	26.78	33.73	21.85	597.0	0.000	
10. Δ	26.67	33.74	4.85	1.20	21.90	593.4	10.	26.67	33.74	21.90	593.4	0.060	
30. Δ	26.58	33.76			21.94	590.0	20.	26.83	33.73	21.83	599.7	0.120	
61.	19.54	34.56	4.60		24.57	340.1	30.	26.58	33.76	21.94	590.0	0.180	
68.	16.30	34.42	3.68	1.44	25.25	274.8	50.	23.20	34.36	23.41	450.3	0.285	
77.	14.57	34.37	2.49	1.50	25.60	241.9	75.	14.80	34.37	25.55	246.3	0.372	
86.	13.74	34.35	2.24	1.51	25.76	226.9	100.	12.45	34.36	26.03	201.6	0.429	
94.	12.91	34.32	2.12	1.95	25.90	213.2	150.	10.33	34.45	26.49	158.6	0.520	
102.	12.32	34.38	1.69	2.55	26.07	197.9	200.	9.89	34.57	26.66	143.5	0.596	
127.	11.49	34.52	0.79		26.33	173.2	250.	8.79	34.47	26.76	134.7	0.666	
153.	10.19	34.44	1.20		26.50	157.2	300.	8.16	34.47	26.86	125.7	0.732	
192.	10.04	34.58	0.38	3.71	26.64	145.3	400.	7.42	34.52	26.99	114.2	0.853	
253.	8.72	34.46	0.52	3.49	26.76	134.3	500.	6.84	34.50	27.07	101.8	0.943	
279.	8.33	34.45	0.53	3.70	26.81	129.6	600.	6.10	34.50	27.17	99.2	1.070	
304.	8.14	34.48	0.42	2.52	26.87	124.9	700.	5.52	34.51	27.24	92.3	1.166	
404.	7.50	34.52	0.42	2.88	26.99	114.3	800.	5.04	34.52	27.31	86.4	1.257	
507.	6.79	34.50	0.52		27.07	107.3	1000.	4.19	34.56	27.44	74.8	1.420	
607.	6.05	34.50	0.62	2.90	27.17	98.6	1200.	3.60	34.57	27.51	68.5	1.565	
807.	5.01	34.52	0.68	3.41	27.32	86.0							
1007.	4.16	34.56	1.06	3.20	27.44	74.5							
1207.	3.58	34.57	1.41	3.40	27.51	68.4							
1495.	2.85	34.60	1.72	3.10	27.60	59.4							

TEMPERATURE ERROR TERM AT	2C. METERS	IS	0.15
TEMPERATURE ERROR TERM AT	5C. METERS	IS	0.13
SALINITY ERROR TERM AT	5C. METERS	IS	0.12

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL		8, STATION		30, 16- ON LAT, 148- 3W LONG, SEP. 15, 1964, 0400 G.C.T.	WIND SPEED 20, DIR. 08		BAR. 15	WEATHER 02		VIS. 8	CLOUD TYPE 8, COVER 4		
DRY BULB 26.5		WET BULB 23.7											
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DEPTH.	
0.	26.37	34.10	3.69	0.54	22.26	558.6	0.	26.39	34.10	22.26	558.6	0.000	
10.	26.35	34.09	4.20	0.24	22.26	558.6	10.	26.35	34.09	22.26	558.6	0.056	
30.Δ	26.24	34.04			22.29	556.1	20.	26.30	34.09	22.28	557.5	0.112	
50.Δ	26.16	34.11			22.33	553.7	30.	26.24	34.09	22.29	556.1	0.169	
76.	22.50	34.66	5.11	0.52	23.84	410.1	50.	26.16	34.10	22.33	553.7	0.280	
101.	20.41	34.75	4.02	0.45	24.35	362.4	75.	22.66	34.64	23.78	416.1	0.402	
126.	18.63	34.76	4.24	0.72	24.95	305.6	100.	20.96	34.75	24.33	363.6	0.501	
150.	15.91	34.91	4.00	0.66	25.41	262.2	150.	15.91	34.51	25.41	262.2	0.658	
175.	13.16	34.24	3.17	1.56	25.79	226.0	200.	11.80	34.23	26.05	201.7	0.775	
191.	12.06	34.16	3.96	1.43	25.95	211.5	250.	11.03	34.63	26.50	159.9	0.866	
224.	11.57	34.91	0.90	2.62	26.32	176.7	300.	10.65	34.67	26.60	151.2	0.945	
251.	11.01	34.63	0.40	2.66	26.50	159.5	400.	9.55	34.64	26.77	137.1	1.090	
277.	10.44	34.68	0.19	2.76	26.56	155.2	500.	8.56	34.60	26.90	126.0	1.223	
301.	10.63	34.67	0.16	2.70	26.60	151.1	600.	7.37	34.52	27.01	115.5	1.345	
401.	9.54	34.64	0.27	2.66	26.77	137.0	700.	6.51	34.50	27.11	106.2	1.457	
503.	8.53	34.60	0.35	3.10	26.90	125.7	800.	5.84	34.51	27.21	97.6	1.560	
602.	7.35	34.52	0.41	2.62	27.01	115.3	1000.	4.65	34.52	27.36	83.6	1.744	
802.	5.83	34.91	0.67	3.34	27.21	97.5	1200.	3.90	34.54	27.45	74.5	1.904	
1001.	4.65	34.52	0.77	3.41	27.36	83.5	1500.	3.06	34.58	27.57	63.4	2.113	
1201.	3.90	34.54	1.68	2.93	27.45	74.5							
1500.	3.06	34.58	1.44	2.78	27.57	63.4							

CROMWELL		8, STATION		31, 17-28N LAT, 147-59W LONG, SEP. 15, 1964, 1400 G.C.T.	WIND SPEED 20, DIR. C6		BAR. 16	WEATHER 02		VIS. 8	CLOUD TYPE , COVER		
DRY BULB 25.0		WET BULB 22.8											
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DEPTH.	
0.	25.70	34.56	4.73	0.52	22.82	505.0	0.	25.70	34.56	22.82	505.0	0.000	
10.	25.69	34.56	4.86	0.63	22.82	504.8	10.	25.68	34.56	22.82	504.8	0.051	
30.Δ	25.68	34.56			22.82	505.6	20.	25.69	34.56	22.82	505.6	0.102	
50.Δ	25.42	34.56			22.90	498.7	30.	25.68	34.56	22.82	505.6	0.153	
77.	23.39	34.79	5.15	0.41	23.68	425.2	50.	25.42	34.56	22.90	498.7	0.254	
99.	22.18	34.82	5.10	0.40	24.05	390.8	75.	23.56	34.77	23.62	431.3	0.371	
124.	21.20	35.01	4.94	0.27	24.47	352.0	100.	22.13	34.83	24.07	389.1	0.474	
151.	20.39	35.04	4.66	0.54	24.71	329.9	150.	20.43	35.04	24.70	330.6	0.656	
177.	18.80	34.88	4.31	0.61	25.00	302.8	200.	16.87	34.62	25.28	276.7	0.809	
191.	17.76	34.74	4.17	1.38	25.15	288.6	250.	12.23	34.18	25.93	214.6	0.933	
223.	14.48	34.35	3.68	1.36	25.60	245.6	300.	10.44	34.31	26.36	174.2	1.031	
250.	12.23	34.18	3.24	1.58	25.93	214.6	400.	8.94	34.47	26.73	139.7	1.189	
276.	11.19	34.19	2.78	2.67	26.13	195.5	500.	7.69	34.47	26.92	122.3	1.321	
302.	10.38	34.32	1.85	2.46	26.38	172.5	600.	6.82	34.47	27.05	111.3	1.439	
402.	8.92	34.47	0.48		26.74	139.5	700.	6.09	34.48	27.15	101.7	1.547	
502.	7.67	34.47	0.37	3.22	26.93	122.1	800.	5.48	34.50	27.24	93.5	1.645	
604.	6.79	34.47	0.37	3.43	27.05	111.0	1000.	4.61	34.52	27.36	83.0	1.824	
803.	5.46	34.50	0.56	3.56	27.25	93.3	1200.	3.92	34.54	27.45	74.7	1.984	
1002.	4.60	34.52	0.79	3.49	27.36	82.9	1500.	3.06	34.58	27.57	63.4	2.194	
1201.	3.92	34.54	1.06	3.45	27.45	74.7	2000.	2.23	34.63	27.68	52.2	2.488	
1500.	3.06	34.58	1.44	3.26	27.57	63.4	2500.	1.83	34.66	27.73	47.1	2.741	
1989.	2.24	34.63	2.02	2.80	27.68	52.4	3000.	1.64	34.68	27.77	44.7	2.975	
2487.	1.84	34.66	2.50	2.51	27.73	47.2	4000.	1.44	34.70	27.79	43.5	3.427	
2985.	1.64	34.68	2.87	2.75	27.76	44.7							
3994.	1.46	34.69	3.54	2.21	27.79	44.2							
4991.	1.45	34.70	3.89	2.48	27.79	45.9							

CROMWELL		8, STATION		32, 19- ON LAT, 147-54W LONG, SEP. 16, 1964, C100 G.C.T.	WIND SPEED 16, DIR. C5		BAR. 17	WEATHER 02		VIS. 8	CLOUD TYPE 8, COVER 5		
DRY BULB 26.7		WET BULB 23.1											
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DEPTH.	
1.	25.57	34.77	4.80	0.29	23.01	486.1	0.	25.57	34.77	23.01	486.0	0.000	
10.	25.52	34.76	4.82	0.29	23.02	485.7	10.	25.52	34.76	23.02	485.7	0.049	
30.Δ	25.38	34.74			23.05	483.8	20.	25.45	34.75	23.04	484.0	0.098	
50.Δ	25.32	34.74			23.07	482.8	30.	25.38	34.74	23.05	483.8	0.147	
75.	24.00	34.78	5.09	0.29	23.50	443.0	50.	25.32	34.74	23.07	482.8	0.244	
100.	22.71	34.94	5.04	0.26	23.95	396.5	75.	24.00	34.78	23.50	443.0	0.361	
125.	22.26	35.08	4.96	0.19	24.23	375.2	100.	22.71	34.94	23.99	396.5	0.466	
150.	21.58	35.17	4.82	0.36	24.48	351.4	150.	21.58	35.17	24.48	351.4	0.655	
174.	20.36	35.02	4.63	0.44	24.70	331.4	200.	18.56	34.88	25.06	297.7	0.818	
187.	19.70	35.01	4.50	0.56	24.87	315.9	250.	14.52	34.42	25.65	241.7	0.954	
221.	16.55	34.62	4.00	0.83	25.35	270.5	300.	11.09	34.15	26.12	196.6	1.065	
247.	14.82	34.46	4.38	0.77	25.61	245.4	400.	7.98	34.12	26.61	150.6	1.240	
272.	12.40	34.19	3.93	1.57	25.90	217.6	500.	6.71	34.21	26.86	127.5	1.381	
295.	11.29	34.16	3.49	1.52	26.09	200.0	600.	6.06	34.33	27.04	111.4	1.501	
393.	8.12	34.12	2.70	2.24	26.55	152.8	700.	5.48	34.40	27.17	99.6	1.608	
491.	6.79	34.20	1.40	2.86	26.84	129.3	800.	4.99	34.45	27.26	91.1	1.704	
591.	6.12	34.32	0.67	3.10	27.02	112.7	1000.	4.31	34.51	27.38	80.2	1.878	
783.	5.06	34.44	0.90	3.24	27.25	92.3	1200.	3.68	34.55	27.48	71.2	2.031	
978.	4.38	34.50	1.07	3.28	27.37	81.3							
1174.	3.75	34.54	1.18		27.47	72.4							
1420.	3.08	34.58	1.42	3.20	27.56	63.1							

TEMPERATURE ERROR TEMP AT 200. METERS 15 0.12

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 24.2		8, STATION WET BULB 21.7		33, 20-33N LAT, 147-58W LONG, SEP. 16, 1964, 1100 G.C.T.		WIND SPEED 14, DIR. C5		BAR. 15		WEATHER 02		VIS. 8		CLCUC TYPE , COVER
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
C.	25.21	34.80	4.82	0.27	23.15	473.3	0.	25.21	34.80	23.15	473.3	0.000		
5.	25.27	34.80	4.82	0.35	23.12	475.4	10.	25.27	34.80	23.13	475.5	0.048		
30.	25.22	34.80			23.14	474.8	20.	25.26	34.80	23.13	475.6	0.096		
50.	25.16	34.80			23.16	473.8	30.	25.22	34.80	23.14	474.8	0.144		
75.	25.12	34.80			23.17	473.7	50.	25.16	34.80	23.16	473.8	0.239		
100.	22.84	34.97	5.06		23.58	397.9	75.	25.12	34.80	23.17	473.7	0.358		
124.	22.02	35.12	4.96	0.26	24.32	365.8	100.	22.84	34.97	23.98	397.9	0.468		
150.	20.50	35.04	4.62	0.87	24.68	332.7	150.	20.50	35.04	24.68	332.7	0.652		
175.	19.20	34.94	4.36	0.47	24.94	308.2	200.	17.82	34.79	25.17	286.9	0.808		
191.	18.40	34.86	4.30	0.71	25.08	295.1	250.	14.33	34.40	25.67	239.7	0.941		
225.	16.06	34.57	4.10	1.08	25.42	263.4	300.	11.48	34.15	26.05	204.2	1.053		
250.	14.33	34.40	4.43	1.72	25.67	239.7	400.	8.05	34.04	26.53	157.8	1.236		
277.	12.54	34.22	4.64	1.38	25.90	218.2	500.	6.19	34.07	26.81	131.1	1.382		
300.	11.48	34.15	4.73		26.05	204.2	600.	5.46	34.25	27.05	109.1	1.503		
400.	8.05	34.04	3.54	1.73	26.53	157.8	700.	5.04	34.38	27.20	95.4	1.606		
502.	6.17	34.07	1.83	2.65	26.82	130.6	800.	4.74	34.46	27.30	87.1	1.698		
603.	5.45	34.26	0.75	3.25	27.06	108.5	1000.	4.13	34.51	27.40	77.8	1.865		
803.	4.73	34.46	0.80	3.10	27.30	86.9	1200.	3.59	34.54	27.48	70.6	2.016		
1004.	4.12	34.51	0.98	3.58	27.41	77.6								
1203.	3.58	34.54	1.15	3.06	27.48	70.5								
1429.	2.95	34.56	1.49	3.28	27.56	63.1								

CROMWELL DRY BULB 23.0		8, STATION WET BULB 21.3		34, 22- ON LAT, 147-58W LONG, SEP. 16, 1964, 1900 G.C.T.		WIND SPEED 18, DIR. C7		BAR. 20		WEATHER 25		VIS. 8		CLCUC TYPE 6, COVER 7
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
C.	25.35	34.88	4.72		23.16	471.6	C.	25.35	34.88	23.16	471.6	0.000		
10.	25.35	34.89	4.85	0.28	23.17	471.3	10.	25.35	34.89	23.17	471.3	0.047		
30.	25.35	34.89			23.17	472.1	20.	25.38	34.89	23.16	472.9	0.095		
50.	24.80	34.96	4.91	0.25	23.39	451.9	30.	25.35	34.89	23.17	472.1	0.143		
76.	23.90	34.89	5.07	0.16	23.61	432.3	50.	24.80	34.96	23.39	451.9	0.236		
102.	22.11	35.12	5.18	0.15	24.30	367.4	75.	23.94	34.89	23.60	433.4	0.347		
126.	21.34	35.20	5.04	0.78	24.57	342.1	100.	22.25	35.10	24.24	372.4	0.449		
152.	20.45	35.12	4.78	0.57	24.75	325.7	150.	20.53	35.13	24.74	326.9	0.625		
177.	19.16	35.00	4.53	0.74	25.00	302.9	200.	17.53	34.76	25.22	282.3	0.778		
192.	18.12	34.84	4.43	0.41	25.14	289.9	250.	13.67	34.28	25.72	235.4	0.909		
226.	15.55	34.50	4.36	0.97	25.48	257.4	300.	10.72	34.11	26.15	193.6	1.017		
252.	13.52	34.26	4.00	0.72	25.73	233.6	400.	7.92	34.07	26.58	153.7	1.192		
279.	11.80	34.14	4.11	1.33	25.98	210.3	500.	6.04	34.10	26.85	127.1	1.334		
304.	10.54	34.11	3.79	1.70	26.18	190.7	600.	5.44	34.26	27.06	108.6	1.453		
404.	7.86	34.07	3.16	2.42	26.55	152.8	700.	5.00	34.37	27.20	96.0	1.556		
506.	5.96	34.10	1.59	2.64	26.87	125.7	800.	4.61	34.44	27.29	87.1	1.649		
607.	5.43	34.27	0.73	3.50	27.07	107.6	1000.	4.04	34.52	27.42	76.1	1.814		
808.	4.58	34.44	0.86	3.21	27.30	86.6	1200.	3.45	34.55	27.50	68.3	1.960		
1009.	4.02	34.52	1.10	3.29	27.42	75.7	1500.	2.82	34.60	27.60	59.2	2.154		
1210.	3.42	34.55	1.35	3.10	27.51	67.9								
1508.	2.81	34.60	1.59		27.60	59.0								

CROMWELL DRY BULB 24.3		8, STATION WET BULB 20.5		35, 23-27N LAT, 147-55W LONG, SEP. 17, 1964, 0400 G.C.T.		WIND SPEED 22, DIR. C8		BAR. 12		WEATHER 01		VIS. 8		CLCUC TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
C.	24.80	35.20	4.90	0.34	23.57	432.6	C.	24.80	35.20	23.57	432.6	0.000		
10.	24.81	35.21	4.92	0.29	23.58	432.6	10.	24.81	35.21	23.58	432.6	0.044		
30.	24.81	35.21			23.58	433.4	20.	24.81	35.21	23.58	432.9	0.087		
50.	24.81	35.21			23.58	434.2	30.	24.81	35.21	23.58	433.4	0.131		
76.	21.60	35.27	4.96	0.28	24.55	342.0	50.	24.81	35.21	23.58	434.2	0.218		
101.	20.98	35.28	4.96	0.18	24.73	326.0	75.	21.73	35.27	24.52	345.7	0.316		
126.	20.36	35.23	4.83	0.24	24.86	314.5	100.	20.98	35.28	24.73	325.9	0.401		
152.	19.43	35.11	4.75	0.32	25.01	300.7	150.	19.52	35.12	25.00	301.9	0.559		
179.	17.92	34.86	4.55	0.60	25.20	283.3	200.	16.38	34.63	25.39	265.5	0.702		
193.	16.87	34.70	4.59	0.56	25.33	271.1	250.	12.90	34.23	25.84	223.6	0.825		
226.	14.61	34.40	4.21	0.80	25.61	244.8	300.	10.66	34.12	26.17	191.8	0.930		
252.	12.77	34.22	4.29	1.03	25.85	221.9	400.	8.21	34.04	26.51	160.0	1.108		
279.	11.31	34.14	4.62	1.20	26.07	201.4	500.	6.16	34.03	26.79	133.6	1.256		
304.	10.56	34.12	4.73	1.24	26.19	190.3	600.	5.07	34.12	26.99	114.0	1.381		
404.	8.13	34.04	3.60	1.54	26.52	159.0	700.	4.60	34.25	27.15	99.5	1.489		
505.	6.08	34.03	2.05	3.25	26.80	132.5	800.	4.40	34.38	27.27	88.7	1.584		
607.	5.02	34.13	1.43	3.18	27.01	112.8	1000.	3.91	34.50	27.42	76.0	1.751		
808.	4.35	34.39	0.77	3.30	27.28	88.0	1200.	3.42	34.53	27.49	69.4	1.898		
1009.	3.89	34.50	1.14	3.24	27.42	75.6	1500.	2.82	34.58	27.59	60.5	2.095		
1209.	3.40	34.53	1.35	3.52	27.45	69.2								
1509.	2.80	34.58	1.62	2.88	27.59	60.3								

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROCMWELL		R, STATION		36, 25- ON LAT, 147-59M LCNG, SEP. 17, 1964, 1400 G.C.T.		BAR. 19		WEATHER 25		VIS. 5		CLOUD TYPE , COVER		
DRY BULB 21.5		WET PULL 20.0		WIND SPEED 22, DIR. C6										
DEPTH	TEMP.	SAL.	UXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.40	35.22	5.02	0.16	23.71	419.7	0.	24.40	35.22	23.71	419.7	0.000		
10.	24.41	35.22	4.95	0.25	23.71	420.4	10.	24.41	35.22	23.71	420.4	0.042		
30.Δ	24.30	34.84			23.45	445.4	20.	24.39	35.00	23.55	435.6	0.085		
49.	23.90	35.32	5.22	0.19	23.93	400.2	30.	24.30	34.84	23.45	445.4	0.130		
73.	21.97	35.26	5.31	0.14	24.44	352.4	50.	23.83	35.32	23.96	397.9	0.215		
98.	20.87	35.26	5.21	0.18	24.75	324.4	75.	21.86	35.26	24.47	349.5	0.309		
122.	20.31	35.26	5.15	0.23	24.90	310.9	100.	20.82	35.26	24.76	323.0	0.394		
147.	19.62	35.18	5.12	0.19	25.02	300.2	150.	19.47	35.15	25.03	298.9	0.550		
172.	18.50	34.95		0.30	25.13	290.3	200.	17.47	34.82	25.28	276.2	0.695		
186.	18.24	34.94	4.91	0.45	25.19	285.3	250.	14.17	34.39	25.70	237.5	0.825		
215.	16.11	34.61	4.90	0.52	25.44	261.4	300.	11.77	34.19	26.02	206.9	0.937		
245.	14.42	34.41	4.83	0.65	25.66	240.7	400.	8.86	34.05	26.42	169.3	1.127		
271.	13.19	34.30	4.83	0.71	25.83	224.7	500.	6.59	34.02	26.73	139.7	1.283		
295.	11.97	34.20	4.93	1.18	25.99	209.4	600.	5.61	34.09	26.90	123.0	1.415		
392.	9.09	34.06	4.35	1.59	26.39	172.2	700.	4.89	34.20	27.07	107.2	1.532		
492.	6.70	34.02	2.65	1.50	26.71	141.3	800.	4.41	34.31	27.22	93.8	1.633		
590.	5.69	34.08	1.34	2.56	26.89	124.8	1000.	3.95	34.48	27.40	78.1	1.807		
787.	4.46	34.30	0.51	3.58	27.20	95.3	1200.	3.54	34.55	27.49	69.5	1.957		
985.	3.98	34.47	1.05	3.30	27.35	78.7								
1176.	3.64	34.52	1.21	3.50	27.46	72.5								
1461.	2.95	34.57	1.54	3.23	27.57	62.6								

SALINITY ERROR TERM AT 20. METERS IS 0.06

CROCMWELL		R, STATION		37, 26-28N LAT, 148- CW LCNG, SEP. 17, 1964, 2200 G.C.T.		BAR. 21		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 3		
DRY BULB 24.0		WET BULB 21.0		WIND SPEED 22, DIR. 07										
DEPTH	TEMP.	SAL.	UXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.32	35.36	4.96	0.19	23.84	407.3	0.	24.32	35.36	23.84	407.3	0.000		
8.Δ	24.29	35.36	5.00	0.33	23.85	406.8	10.	24.28	35.32	23.82	409.4	0.041		
30.Δ	24.18	34.88			23.52	439.1	20.	24.23	35.11	23.68	423.6	0.083		
50.Δ	24.10	34.89			23.55	436.9	30.	24.18	34.88	23.52	439.1	0.127		
72.	21.29	35.30	5.21	0.35	24.66	331.5	50.	24.10	34.89	23.55	436.9	0.215		
97.	20.72	35.28	5.19	0.20	24.80	319.1	75.	21.15	35.31	24.71	327.1	0.311		
120.	20.24	35.26	5.08	0.15	24.92	309.1	100.	20.66	35.28	24.82	317.7	0.392		
145.	19.67	35.22	5.00	0.45	25.03	298.5	150.	19.53	35.19	25.05	297.0	0.547		
170.	18.81	35.07	4.91	0.40	25.14	289.0	200.	16.81	34.78	25.41	263.9	0.688		
180.	18.33	35.01	4.91	0.24	25.22	282.2	250.	14.02	34.52	25.83	224.9	0.812		
202.	16.65	34.76	4.74	1.10	25.43	262.0	300.	12.22	34.33	26.05	204.7	0.920		
221.	15.63	34.66	4.77	0.50	25.55	247.3	400.	9.42	34.14	26.40	171.8	1.110		
239.	14.58	34.56	4.78	0.76	25.74	232.9	500.	7.15	34.03	26.66	146.9	1.271		
257.	13.69	34.49	4.80	0.72	25.80	220.3	600.	5.50	34.06	26.89	124.1	1.408		
329.	11.46	34.24	4.98	0.59	26.12	197.9	700.	4.78	34.15	27.05	109.4	1.526		
400.	9.42	34.14	4.96	1.32	26.40	171.8	800.	4.44	34.26	27.17	98.1	1.631		
474.	7.69	34.04	4.02	2.04	26.59	153.7	1000.	3.66	34.46	27.41	75.7	1.806		
614.	5.33	34.07	1.53	2.68	26.92	121.2								
761.	4.60	34.22	0.62	3.15	27.12	102.6								
907.	4.03	34.37	0.59	3.12	27.30	86.0								
1029.	3.56	34.49	1.11	3.19	27.45	72.6								

SALINITY ERROR TERM AT 20. METERS IS 0.05

CROCMWELL		R, STATION		38, 24-55N LAT, 151- SW LCNG, SEP. 18, 1964, 1600 G.C.T.		BAR. 21		WEATHER 02		VIS. 8		CLOUD TYPE , COVER		
DRY BULB 24.0		WET BULB 20.0		WIND SPEED 14, DIR. 09										
DEPTH	TEMP.	SAL.	UXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.09	35.00			23.33	455.4	0.	25.09	35.00	23.33	455.4	0.000		
10.	25.08	35.00			23.34	455.5	10.	25.08	35.00	23.34	455.5	0.046		
30.Δ	25.08	35.00			23.34	456.3	20.	25.08	35.00	23.34	455.9	0.092		
50.Δ	25.07	35.00			23.34	456.8	30.	25.08	35.00	23.34	456.3	0.138		
74.	22.83	35.00			24.00	394.5	50.	25.07	35.00	23.34	456.8	0.230		
97.	21.64	35.15			24.45	352.5	75.	22.76	35.01	24.03	392.3	0.337		
120.	20.96	35.22			24.69	330.5	100.	21.54	35.17	24.49	348.9	0.430		
142.	20.14	35.16			24.87	314.6	150.	19.90	35.13	24.90	311.1	0.596		
165.	19.46	35.08			24.98	304.1	200.	17.63	34.89	25.28	276.6	0.744		
177.	19.08	35.08			25.08	295.1	250.	14.37	34.52	25.76	231.7	0.873		
204.	17.39	34.94			25.32	273.2	300.	11.90	34.30	26.08	201.1	0.982		
226.	15.87	34.65			25.54	252.3	400.	9.05	34.09	26.42	169.5	1.169		
246.	14.65	34.54			25.71	236.0	500.	7.06	34.02	26.66	146.2	1.328		
263.	13.47	34.46			25.90	218.3	600.	5.38	34.10	26.94	119.5	1.462		
331.	11.06	34.19			26.15	194.5	700.	4.64	34.20	27.11	103.6	1.575		
400.	9.05	34.09			26.42	169.5	800.	4.30	34.31	27.23	92.4	1.674		
472.	7.63	34.02			26.58	154.2	1000.	3.73	34.47	27.41	75.9	1.844		
609.	5.25	34.11			26.96	117.2	1200.	3.28	34.53	27.51	67.7	1.990		
749.	4.48	34.26			27.17	98.1								
890.	4.04	34.40			27.33	83.8								
1107.	3.47	34.51			27.47	70.7								
1200.**	3.25**	34.55**			27.51	67.7								

TEMPERATURE ERROR TERM AT 300. METERS IS 0.14

ΔFROM BT DATA

**EXTRAPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 8, STATION 39, 25- ON LAT, 154- 1W LONG, SEP. 19, 1964, 0600 G.C.T.													
DRY BULB 25.0		WET BULB 22.1		WIND SPEED 14, DIR. 07		BAR. 21		WEATHER 01		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	25.05	35.42	4.96	0.20	23.66	424.0	0.	25.05	35.42	23.66	424.0	0.000	
10.	24.98	35.42	5.00	1.08	23.69	422.4	10.	24.98	35.42	23.69	422.4	0.043	
30. ^Δ	24.88	35.42			23.72	420.3	20.	24.92	35.42	23.70	421.1	0.085	
50. ^Δ	24.84	35.42			23.73	419.9	30.	24.88	35.42	23.72	420.3	0.127	
74.	21.59	35.22	5.28	0.92	24.52	345.3	50.	24.84	35.42	23.73	419.9	0.212	
98.	20.96	35.28	5.22	0.35	24.74	325.3	75.	21.55	35.22	24.53	343.9	0.308	
121.	19.56	35.07	4.90	1.32	24.95	305.8	100.	20.85	35.27	24.76	323.5	0.392	
146.	18.50	34.92	4.71	0.56	25.11	291.6	150.	18.33	34.90	25.13	289.3	0.547	
170.	17.43	34.78	4.67	1.28	25.26	277.3	200.	15.86	34.60	25.49	255.7	0.684	
195.	16.69	34.69	4.80		25.37	267.5	250.	13.19	34.33	25.85	222.2	0.805	
218.	14.83	34.50	4.87		25.64	241.8	300.	11.50	34.21	26.09	200.2	0.911	
244.	13.47	34.35	4.80		25.81	225.8	400.	9.34	34.11	26.39	172.8	1.099	
269.	12.41	34.27	4.90		25.96	211.8	500.	6.90	34.00	26.66	145.9	1.260	
293.	11.67	34.22	4.95		26.07	202.4	600.	5.52	34.03	26.87	126.2	1.398	
392.	9.55	34.12	4.73		26.36	175.2	700.	4.76	34.15	27.05	109.3	1.517	
488.	7.12	34.00	3.54		26.64	148.6	800.	4.34	34.28	27.20	95.2	1.620	
586.	5.66	34.02	2.04		26.84	128.8	1000.	3.71	34.45	27.40	76.9	1.794	
780.	4.42	34.26	0.57		27.18	97.7	1200.	3.22	34.54	27.52	65.9	1.939	
977.	3.77	34.44	0.89		27.35	78.4							
1163.	3.33	34.52	1.27		27.49	68.7							
1446.	2.75	34.58	1.59		27.59	59.4							

CROMWELL 8, STATION 40, 24-59N LAT, 157- 0W LONG, SEP. 19, 1964, 2000 G.C.T.														
DRY BULB 27.7		WET BULB 23.5		WIND SPEED 12, DIR. 07		BAR. 23		WEATHER 03		VIS. 8		CLOUD TYPE 2, COVER 5		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	25.63	35.00			23.17	471.2	0.	25.63	35.00	23.17	471.2	0.000		
10.	25.59	35.00			23.18	470.5	10.	25.59	35.00	23.18	470.5	0.047		
30.Δ	25.52	35.00			23.20	469.2	20.	25.55	35.00	23.19	469.8	0.095		
50.Δ	25.50	35.01			23.22	468.7	30.	25.52	35.00	23.20	469.2	0.142		
77.	24.10	35.07			23.69	425.0	50.	25.50	35.01	23.22	468.7	0.237		
102.	22.81	35.15			24.12	384.2	75.	24.23	35.06	23.64	429.0	0.350		
127.	21.87	35.16			24.40	359.0	100.	22.91	35.14	24.09	387.2	0.452		
153.	20.77	35.12			24.67	334.0	150.	20.91	35.13	24.63	336.9	0.635		
178.	19.23	34.97			24.96	306.8	200.	18.28	34.89	25.13	290.7	0.793		
193.	18.63	34.92			25.07	296.3	250.	15.71	34.60	25.53	254.0	0.930		
227.	16.84	34.73			25.36	269.3	300.	13.31	34.34	25.84	224.8	1.051		
254.	15.50	34.58			25.56	251.3	400.	10.08	34.13	26.28	183.7	1.257		
279.	13.97	34.41			25.76	232.4	500.	7.74	34.02	26.57	156.0	1.429		
304.	13.21	34.33			25.85	223.7	600.	5.94	34.03	26.81	132.1	1.574		
405.	9.93	34.12			26.30	181.7	700.	4.98	34.14	27.02	112.5	1.698		
507.	7.60	34.02			26.58	154.3	800.	4.49	34.29	27.19	96.8	1.804		
608.	5.82	34.03			26.83	130.4	1000.	3.86	34.44	27.38	79.3	1.982		
809.	4.47	34.30			27.20	95.6	1200.	3.32	34.54	27.51	67.6	2.131		
1010.	3.84	34.45			27.35	78.7								
1211.	3.29	34.54			27.51	67.1								
1511.	2.74	34.58			27.60	59.6								

CROMWELL 8, STATION 41, 23-29N LAT, 157- 0W LONG, SEP. 20, 1964, 0600 G.C.T.														
DRY BULB 26.0		WET BULB 24.0		WIND SPEED 14, DIR. 05		BAR. 19		WEATHER 02		VIS. 7		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	25.64	34.92			23.11	477.3	0.	25.64	34.92	23.11	477.3	0.000		
11.Δ	25.70	34.92			23.09	479.5	10.	25.70	34.92	23.09	479.4	0.048		
50.Δ	25.60	34.94			23.13	476.7	20.	25.69	34.92	23.09	479.3	0.096		
75.Δ	25.60	34.94			23.13	477.7	30.	25.67	34.93	23.10	478.8	0.145		
102.	23.79	34.98			23.71	423.7	50.	25.60	34.94	23.13	476.7	0.241		
127.	22.47	35.11			24.19	378.8	75.	25.60	34.94	23.13	477.7	0.361		
153.	20.96	35.08			24.59	341.8	100.	23.95	34.97	23.66	428.5	0.475		
178.	19.35	34.98			24.94	309.1	150.	21.14	35.09	24.54	345.7	0.670		
193.	18.59	34.89			25.06	297.5	200.	18.20	34.85	25.12	291.6	0.831		
226.	16.71	34.69			25.36	269.2	250.	15.36	34.56	25.57	250.1	0.968		
253.	15.21	34.54			25.59	248.0	300.	13.30	34.35	25.85	224.1	1.087		
279.	14.18	34.43			25.73	235.2	400.	9.68	34.13	26.34	177.1	1.290		
305.	13.09	34.33			25.88	221.4	500.	7.06	34.04	26.68	144.8	1.452		
405.	9.53	34.12			26.36	175.1	600.	5.53	34.09	26.92	121.9	1.587		
507.	6.91	34.04			26.70	143.0	700.	4.81	34.21	27.09	105.4	1.702		
607.	5.46	34.10			26.93	120.5	800.	4.46	34.33	27.23	93.1	1.802		
807.	4.45	34.34			27.24	92.4	1000.	3.90	34.48	27.40	77.5	1.975		
1009.	3.88	34.48			27.41	77.0	1200.	3.31	34.54	27.51	67.3	2.121		
1203.	3.30	34.54			27.51	67.2								
1495.	2.80	34.58			27.59	60.3								

AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CRCMELL 8, STATION 42, 22- ON LAT, 156-59W LONG, SEP. 20, 1964, 1600 G.C.T.														
DRY BULB 26.4			WET BULB 23.6			WIND SPEED 20, DIR. 08			BAR. 18			WEATHER 01		
									VIS. 7			CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.
C.	25.62	35.15			23.25	460.1	0.	25.62	35.15	23.29	460.1	0.	25.62	35.15
10.	25.66	35.14			23.27	462.4	10.	25.66	35.14	23.27	462.4	10.	25.66	35.14
30.	25.56	35.11			23.27	462.5	20.	25.62	35.12	23.26	463.0	20.	25.62	35.12
50.	25.46	35.11			23.30	460.3	30.	25.56	35.11	23.27	462.5	30.	25.56	35.11
75.	25.46	35.11			23.30	461.3	50.	25.46	35.11	23.30	460.3	50.	25.46	35.11
102.	22.56	35.07			24.13	383.2	75.	25.46	35.11	23.30	461.3	75.	25.46	35.11
126.	20.84	35.04			24.59	340.6	100.	22.81	35.07	24.06	389.6	100.	22.81	35.07
151.	18.91	34.92			25.00	301.7	150.	18.98	34.93	24.99	303.0	150.	18.98	34.93
178.	17.62	34.78			25.22	282.0	200.	16.60	34.69	25.39	266.1	200.	16.60	34.69
193.	16.90	34.72			25.34	270.3	250.	13.44	34.34	25.81	225.9	250.	13.44	34.34
226.	15.29	34.54			25.57	248.9	300.	11.72	34.21	26.05	204.2	300.	11.72	34.21
252.	13.30	34.33			25.83	224.1	400.	8.85	34.06	26.43	168.3	400.	8.85	34.06
279.	12.39	34.26			25.96	212.4	500.	6.75	34.09	26.76	136.6	500.	6.75	34.09
304.	11.59	34.20			26.06	202.6	600.	5.66	34.21	26.99	114.8	600.	5.66	34.21
405.	8.72	34.06			26.45	166.6	700.	5.06	34.31	27.14	101.1	700.	5.06	34.31
506.	6.65	34.10			26.78	134.9	800.	4.68	34.38	27.25	91.9	800.	4.68	34.38
607.	5.61	34.22			27.01	113.6	1000.	4.00	34.48	27.39	78.5	1000.	4.00	34.48
809.	4.66	34.39			27.25	91.3	1200.	3.42	34.54	27.50	68.8	1200.	3.42	34.54
1009.	3.97	34.48			27.40	78.1	1500.	2.77	34.58	27.59	59.9	1500.	2.77	34.58
1209.	3.40	34.54			27.50	68.4								
1510.	2.75	34.58			27.55	59.7								

ΔFROM 8T DATA

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 9

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL CRY BULB 26.4		9, STATION WET BULB 22.0		1, 20-33N LAT, 157-17W LONG, C.C.T.		2, 1964, 0600 G.C.T.		8AR. 19		WEATHER 03		VIS. 6		CLOUD TYPE & COVER
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	26.15	34.94			22.96	491.0	0.	26.15	34.94	22.96	491.0	0.000		
9.	26.17	34.94			22.96	491.9	10.	26.18	34.94	22.95	492.4	0.050		
48.	25.74	34.94			23.05	480.7	20.	26.22	34.93	22.94	494.4	0.099		
72.	24.24	35.02			23.61	432.4	30.	26.15	34.93	22.96	492.8	0.149		
96.	23.16	35.09			23.98	397.9	50.	25.62	34.95	23.13	477.0	0.247		
119.	22.26	35.10			24.24	373.5	75.	24.09	35.03	23.66	427.4	0.361		
145.	21.04	35.06			24.55	345.0	100.	23.00	35.10	24.02	393.4	0.464		
169.	19.60	34.97			24.86	315.7	150.	20.77	35.05	24.61	339.3	0.649		
182.	18.62	34.90			25.06	297.2	200.	17.96	34.84	25.18	285.9	0.806		
215.	17.40	34.78			25.27	278.1	250.	14.11	34.41	25.73	234.4	0.937		
241.	15.14	34.51			25.58	248.3	300.	11.63	34.26	26.11	198.6	1.046		
264.	12.72	34.29			25.92	216.1	400.	8.44	34.14	26.55	156.3	1.226		
288.	12.07	34.28			26.04	205.2	500.	6.94	34.17	26.80	133.6	1.372		
379.	8.85	34.15			26.50	161.5	600.	5.68	34.28	27.05	109.8	1.495		
472.	7.41	34.15			26.71	141.4	700.	5.11	34.39	27.20	95.6	1.599		
565.	5.97	34.24			26.98	116.2	800.	4.75	34.46	27.30	86.8	1.691		
750.	4.98	34.44			27.26	90.9	1000.	4.05	34.52	27.42	76.2	1.856		
933.	4.24	34.50			27.39	79.2	1200.	3.48	34.55	27.50	68.9	2.003		
1122.	3.74	34.54			27.47	71.8								
1404.	3.01	34.54			27.54	65.1								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

CROMWELL ORY BULB 24.7		9, STATION WET BULB 21.8		2, 19- ON LAT, 157- ON LONG, C.C.T.		2, 1964, 1700 G.C.T.		8AR. 17		WEATHER 02		VIS.		CLOUD TYPE 8, COVER 4
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	25.55	34.94			23.15	473.2	0.	25.55	34.94	23.15	473.2	0.000		
10.	25.58	34.93			23.13	475.2	10.	25.58	34.93	23.13	475.2	0.048		
50.	25.59	34.93			23.13	476.8	20.	25.59	34.93	23.13	476.1	0.096		
75.	25.58	34.93			23.13	477.8	30.	25.59	34.93	23.13	476.6	0.144		
102.	25.42	34.94			23.19	473.5	50.	25.58	34.93	23.13	476.8	0.240		
127.	23.84	35.05			23.75	421.0	75.	25.58	34.93	23.13	477.8	0.360		
152.	22.04	35.11			24.31	368.1	100.	25.46	34.94	23.17	474.8	0.480		
177.	20.68	35.07			24.65	336.1	150.	22.18	35.11	24.27	371.9	0.693		
193.	19.48	34.97			24.89	313.5	200.	18.93	34.91	24.99	304.3	0.864		
226.	16.86	34.69			25.33	272.6	250.	14.91	34.48	25.61	245.7	1.002		
253.	14.68	34.46			25.64	242.6	300.	11.99	34.26	26.03	205.7	1.116		
280.	13.01	34.34			25.90	218.5	400.	7.86	34.15	26.64	147.2	1.294		
305.	11.76	34.24			26.86	202.8	500.	6.29	34.24	26.94	119.5	1.429		
405.	7.71	34.15			26.67	144.7	600.	5.52	34.34	27.12	103.2	1.541		
506.	6.25	34.25			26.95	118.4	700.	5.09	34.43	27.23	92.7	1.640		
607.	5.48	34.35			27.13	102.3	800.	4.82	34.49	27.31	86.1	1.731		
808.	4.81	34.49			27.31	85.7	1000.	4.32	34.52	27.39	79.4	1.898		
1010.	4.30	34.52			27.39	79.2	1200.	3.70	34.56	27.49	70.7	2.050		
1210.	3.67	34.56			27.45	70.2	1500.	2.90	34.59	27.59	60.8	2.250		
1510.	2.87	34.59			27.59	60.5								

CROMWELL ORY BULB 25.8		9, STATION WET BULB 22.5		3, 17-30N LAT, 156-59W LONG, C.C.T.		3, 1964, C200 G.C.T.		8AR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	26.10	34.85			22.91	496.0	0.	26.10	34.85	22.91	496.0	0.000		
10.	26.04	34.85			22.93	494.6	10.	26.04	34.85	22.93	494.6	0.050		
30.	25.90	34.85			22.97	491.2	20.	25.98	34.85	22.95	493.2	0.100		
50.	25.66	34.87			23.06	483.5	30.	25.90	34.85	22.97	491.2	0.149		
76.	23.20	35.06			23.94	400.4	50.	25.66	34.87	23.06	483.5	0.247		
101.	22.13	35.13			24.30	367.2	75.	23.30	35.05	23.91	403.9	0.359		
126.	21.15	35.15			24.59	340.7	100.	22.16	35.13	24.29	368.0	0.456		
152.	20.14	35.09			24.81	320.0	150.	20.22	35.10	24.80	321.4	0.630		
177.	19.04	34.97			25.01	302.1	200.	17.02	34.73	25.32	272.4	0.780		
191.	17.82	34.83			25.20	283.5	250.	13.96	34.37	25.72	234.7	0.908		
225.	15.09	34.49			25.58	248.3	300.	10.58	34.27	26.30	179.8	1.012		
252.	13.88	34.36			25.74	233.5	400.	7.92	34.25	26.72	140.5	1.174		
277.	12.38	34.33			26.02	207.1	500.	6.53	34.29	26.94	119.3	1.305		
302.	10.42	34.26			26.32	177.6	600.	5.84	34.37	27.09	105.6	1.418		
402.	7.92	34.25			26.72	140.4	700.	5.33	34.44	27.21	95.1	1.520		
503.	6.50	34.29			26.95	118.8	800.	4.92	34.49	27.30	87.2	1.612		
604.	5.82	34.37			27.10	105.2	1000.	4.27	34.53	27.40	78.1	1.779		
805.	4.90	34.49			27.30	86.8	1200.	3.65	34.57	27.50	69.3	1.928		
1005.	4.26	34.53			27.41	77.9	1500.	2.93	34.60	27.59	60.4	2.126		
1205.	3.64	34.57			27.50	69.1	2000.	2.15	34.64	27.70	50.3	2.407		
1506.	2.92	34.60			27.60	60.3	2500.	1.80	34.67	27.75	45.9	2.652		
1951.	2.20	34.64			27.69	51.0	3000.	1.59	34.69	27.77	43.5	2.880		
2442.	1.83	34.67			27.74	46.2								
2934.	1.63	34.68			27.77	44.4								
3924.	1.47	34.70			27.79	43.5								

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL CRY BULB 25.2		9, STATION	4, 15-58N LAT, 157-1W LONG, OCT.	3, 1964, 1300 G.C.T.	WET BULB 22.4	WIND SPEED 18, DIR. 05	BAR. 14	WEATHER 02	VIS. 8	CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	26.32	34.67			22.71	515.5	0.	26.32	34.67	22.71	515.5	0.000		
7.	26.28	34.67			22.72	514.6	10.	26.27	34.67	22.72	514.4	0.052		
30.Δ	26.22	34.67			22.74	513.7	20.	26.24	34.67	22.73	513.9	0.104		
50.	26.20	34.68			22.75	513.2	30.	26.22	34.67	22.74	513.7	0.155		
71.	25.78	34.91			23.06	485.0	50.	26.20	34.68	22.75	513.2	0.259		
94.	23.85	34.68			23.46	446.7	75.	25.50	34.87	23.11	479.8	0.384		
118.	21.85	35.01			24.29	369.0	100.	23.35	34.75	23.67	427.6	0.498		
142.	19.77	34.93			24.75	321.9	150.	19.24	34.91	24.91	310.6	0.684		
166.	17.84	34.79			25.17	286.0	200.	13.28	34.29	25.81	224.9	0.819		
175.	15.86	34.55			25.45	259.1	250.	11.34	34.34	26.22	186.9	0.923		
209.	12.48	34.24			25.93	213.9	300.	10.81	34.44	26.39	171.2	1.013		
234.	11.57	34.29			26.14	194.0	400.	9.48	34.58	26.73	140.5	1.171		
258.	11.28	34.36			26.25	184.3	500.	8.32	34.58	26.92	123.7	1.304		
281.	11.05	34.40			26.32	177.8	600.	7.25	34.54	27.04	112.4	1.423		
373.	9.82	34.56			26.66	146.9	700.	6.26	34.50	27.14	103.1	1.532		
467.	8.69	34.59			26.87	128.2	800.	5.58	34.48	27.22	96.1	1.633		
559.	7.70	34.56			26.95	116.9	1000.	4.74	34.52	27.35	84.5	1.815		
745.	5.88	34.48			27.18	99.6	1200.	3.97	34.55	27.46	74.3	1.976		
930.	5.05	34.51			27.30	88.6								
1104.	4.31	34.54			27.41	78.7								
1326.	3.54	34.57			27.51	68.8								

CROMWELL CRY BULB 26.1		9, STATION	5, 14-31N LAT, 157-1W LONG, OCT.	3, 1964, 2200 G.C.T.	WET BULB 23.5	WIND SPEED 18, DIR. 07	BAR. 14	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 4				
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	26.93	33.83			21.88	594.4	0.	26.93	33.83	21.88	594.4	0.000		
11.	26.82	33.82			21.91	592.2	10.	26.83	33.82	21.90	592.6	0.060		
30.Δ	26.70	34.00			22.08	576.4	20.	26.75	33.89	21.99	585.2	0.119		
50.	26.62	34.10			22.18	567.6	30.	26.70	34.00	22.08	576.4	0.178		
77.	25.27	34.62			22.99	491.1	50.	26.62	34.10	22.18	567.6	0.293		
102.	22.33	34.81			24.00	395.7	75.	25.43	34.58	22.91	498.5	0.427		
126.	19.91	34.87			24.71	329.2	100.	22.58	34.80	23.92	403.0	0.541		
153.	17.20	34.70			25.26	277.3	150.	17.57	34.73	25.19	283.4	0.714		
178.	13.18	34.33			25.86	219.9	200.	11.97	34.41	26.16	191.6	0.833		
193.	12.17	34.37			26.09	198.1	250.	11.08	34.66	26.52	158.1	0.922		
226.	11.65	34.58			26.35	174.0	300.	10.32	34.65	26.64	147.3	0.999		
253.	11.00	34.67			26.54	156.4	400.	9.00	34.60	26.83	130.9	1.139		
279.	10.45	34.64			26.61	148.7	500.	8.04	34.56	26.94	120.8	1.266		
305.	10.30	34.65			26.65	146.9	600.	6.97	34.54	27.08	108.2	1.382		
406.	8.91	34.60			26.84	129.8	700.	6.17	34.53	27.18	99.6	1.487		
507.	7.98	34.54			26.95	120.2	800.	5.58	34.52	27.25	93.4	1.584		
608.	6.88	34.54			27.05	107.2	1000.	4.67	34.55	27.38	81.7	1.761		
809.	5.54	34.52			27.25	92.9	1200.	3.90	34.57	27.48	72.4	1.917		
1011.	4.63	34.55			27.38	81.1								
1210.	3.87	34.57			27.48	71.9								
1477.	3.07	34.59			27.57	62.7								

CROMWELL CRY BULB 26.6		9, STATION	6, 13-4N LAT, 157-2W LONG, OCT.	4, 1964, 0700 G.C.T.	WET BULB 23.9	WIND SPEED 21, DIR. 06	BAR. 12	WEATHER 03	VIS. 6	CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	27.07	33.64			21.65	612.3	0.	27.07	33.64	21.69	612.3	0.000		
10.Δ	27.08	33.64			21.69	613.0	10.	27.08	33.64	21.69	613.0	0.062		
30.	26.70	33.71			21.86	597.2	20.	27.13	33.62	21.66	616.1	0.124		
50.	23.08	34.53			23.58	434.4	30.	26.70	33.71	21.86	597.2	0.185		
76.	21.51	34.88			24.28	367.8	50.	23.08	34.53	23.58	434.4	0.289		
102.	19.30	34.80			24.81	318.2	75.	21.54	34.88	24.27	368.8	0.390		
127.	15.33	34.46			25.50	252.7	100.	19.52	34.82	24.77	322.1	0.477		
152.	12.00	34.24			26.02	203.5	150.	12.22	34.25	25.99	206.7	0.610		
177.	10.80	34.28			26.27	179.9	200.	10.76	34.48	26.43	164.9	0.704		
192.	10.87	34.43			26.38	169.5	250.	10.15	34.60	26.63	147.0	0.782		
226.	10.43	34.57			26.56	153.3	300.	9.90	34.66	26.72	139.4	0.855		
253.	10.12	34.60			26.64	146.4	400.	8.67	34.60	26.88	125.6	0.988		
278.	10.08	34.65			26.68	142.6	500.	7.49	34.55	27.02	113.4	1.109		
304.	9.86	34.66			26.73	138.8	600.	6.68	34.53	27.11	104.9	1.219		
405.	8.60	34.60			26.85	124.9	700.	5.89	34.53	27.22	95.5	1.320		
506.	7.43	34.55			27.02	112.7	800.	5.18	34.54	27.31	86.8	1.412		
607.	6.63	34.53			27.12	104.3	1000.	4.28	34.55	27.42	76.7	1.578		
808.	5.13	34.54			27.32	86.1	1200.	3.69	34.58	27.50	69.1	1.725		
1009.	4.25	34.55			27.42	76.3	1500.	2.87	34.61	27.61	59.0	1.920		
1212.	3.66	34.58			27.51	68.6								
1508.	2.85	34.61			27.61	58.7								

TEMPERATURE ERROR TERM AT 20. METERS IS 0.11

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 26.7		9, STATION WET BULB 23.6		7, 11-35N LAT, 157- 3W LONG, DCT.		4, 1964, 1600 G.C.T. BAR. 11 WEATHER 81		VIS.		CLOUD TYPE		COVER	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.DPTH.	
2.	27.15	33.71			21.72	609.8	0.	27.15	33.71	21.72	609.7	0.000	
12.	27.23	33.80			21.76	606.2	10.	27.22	33.79	21.76	606.4	0.061	
20.Δ	27.23	33.80			21.76	606.5	20.	27.23	33.80	21.76	606.5	0.122	
30.Δ	27.22	33.80			21.77	606.6	30.	27.22	33.80	21.77	606.6	0.183	
52.	20.76	34.91			24.51	345.2	50.	21.44	34.80	24.24	370.9	0.282	
78.	18.64	34.92			25.02	297.5	75.	18.95	34.97	25.03	296.7	0.366	
103.	15.24	34.44			25.55	247.9	100.	15.71	34.55	25.48	253.7	0.435	
128.	11.76	34.25			26.07	197.9	150.	10.28	34.17	26.28	178.5	0.544	
154.	10.16	34.18			26.30	175.9	200.	10.40	34.63	26.62	147.4	0.626	
178.	10.24	34.49			26.53	154.9	250.	9.94	34.67	26.72	138.2	0.698	
193.	10.41	34.61			26.60	149.3	300.	9.34	34.63	26.80	132.1	0.767	
228.	10.15	34.66			26.68	142.0	400.	8.32	34.59	26.93	121.1	0.894	
255.	9.89	34.67			26.73	137.5	500.	7.31	34.55	27.04	110.7	1.011	
280.	9.59	34.65			26.77	134.6	600.	6.37	34.54	27.16	99.9	1.118	
306.	9.27	34.63			26.80	131.4	700.	5.62	34.54	27.26	91.1	1.214	
406.	8.26	34.59			26.93	120.5	800.	5.03	34.55	27.34	84.1	1.303	
508.	7.23	34.55			27.05	109.9	1000.	4.26	34.57	27.44	75.0	1.464	
606.	6.32	34.54			27.17	99.3	1200.	3.62	34.59	27.52	67.5	1.608	
810.	4.98	34.55			27.34	83.5	1500.	2.92	34.62	27.61	58.9	1.800	
1010.	4.23	34.57			27.44	74.6	2000.	2.17	34.65	27.70	50.2	2.077	
1212.	3.59	34.59			27.52	67.1	2500.	1.87	34.68	27.75	46.3	2.323	
1519.	2.88	34.62			27.61	58.4	3000.	1.69	34.69	27.77	44.8	2.555	
2012.	2.16	34.65			27.70	50.1	4000.	1.44	34.70	27.80	43.2	3.007	
2510.	1.87	34.68			27.75	46.2							
3008.	1.69	34.65			27.77	44.8							
4002.	1.44	34.70			27.80	43.2							

TEMPERATURE ERROR TERM AT 50. METERS IS 0.18
 TEMPERATURE ERROR TERM AT 75. METERS IS 0.14

CROMWELL CRY BULB 26.5		9, STATION WET FLLB 23.8		7A, 10- ON LAT, 153-56W LONG, DCT.		5, 1964, 1200 G.C.T.		BAR. 12		WEATHER 02		VIS. 8		CLOUD TYPE		COVER	
				WIND SPEED 14, DIR. 08													
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.					
0.	27.44	33.56	4.94		21.52	629.4	0.	27.44	33.56	21.52	629.4	0.000					
9.	27.46	33.56	5.01		21.51	630.4	10.	27.46	33.56	21.51	630.5	0.063					
20.6	27.46	33.56			21.51	630.8	20.	27.46	33.56	21.51	630.8	0.127					
30.6	27.40	33.57			21.54	628.7	30.	27.40	33.57	21.54	628.7	0.190					
44.	22.52	35.08	5.41		24.15	379.2	50.	22.00	35.08	24.30	365.4	0.291					
50.Δ	22.00	35.08			24.30	365.4	75.	18.81	34.85	24.97	302.1	0.375					
69.	19.95	34.97	5.15		24.77	320.9	100.	14.14	34.47	25.77	226.5	0.441					
89.	16.00	34.56	4.05		25.43	258.7	150.	11.40	34.72	26.50	157.5	0.538					
111.	12.70	34.46	1.61		26.05	199.4	200.	10.72	34.73	26.64	145.8	0.614					
135.	11.65	34.64	0.61		26.35	167.4	250.	10.09	34.71	26.73	137.9	0.686					
157.	11.32	34.74	0.29		26.53	154.7	300.	9.69	34.69	26.78	133.6	0.754					
169.	11.08	34.74	0.25		26.58	150.7	400.	8.85	34.65	26.89	125.4	0.885					
199.	10.73	34.73	0.41		26.63	146.1	500.	7.76	34.59	27.00	114.9	1.006					
223.	10.38	34.73	0.45		26.69	140.6	600.	6.85	34.55	27.11	105.6	1.118					
247.	10.12	34.71	0.53		26.72	138.2	700.	6.10	34.55	27.20	97.0	1.220					
269.	9.90	34.70	0.55		26.75	135.8	800.	5.48	34.55	27.29	89.7	1.314					
360.	9.28	34.67	0.47		26.83	129.7	1000.	4.53	34.56	27.41	78.6	1.485					
442.	8.37	34.62	0.33		26.94	120.6	1200.	3.79	34.59	27.50	69.8	1.635					
533.	7.44	34.57	0.41		27.04	111.9											
720.	5.97	34.55	0.77		27.22	95.4											
901.	4.96	34.56	1.10		27.35	83.5											
1084.	4.21	34.57	1.30		27.44	75.1											
1363.	3.37	34.61	1.78		27.56	64.1											

CROMWELL		9, STATION		8, 11-29N LAT, 153-56W LONG, DCT.		5, 1964, 2100 G.C.T.							
DRY BULB 27.0		WET BULB 24.4		WIND SPEED 20, DIR. 08		BAR. 15		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.CPTH.	
0.	27.20	33.65	4.89		21.66	615.6	0.	27.20	33.65	21.66	615.6	0.000	
10.	27.21	33.67	4.61		21.67	614.8	10.	27.21	33.67	21.67	614.8	0.062	
20.Δ	25.60	34.03			22.45	541.0	20.	25.60	34.03	22.45	541.0	0.120	
30.Δ	21.50	34.47			23.97	395.5	30.	21.50	34.47	23.97	395.5	0.167	
51.	17.76	34.68	4.55		25.10	288.4	50.	17.86	34.69	25.08	290.3	0.236	
76.	13.26	34.32	3.05		25.83	219.4	75.	13.42	34.34	25.82	221.2	0.301	
102.	11.32	34.30	2.24		26.19	185.7	100.	11.40	34.29	26.17	187.7	0.352	
127.	10.62	34.45	1.39		26.43	163.2	150.	10.43	34.57	26.56	151.8	0.438	
153.	10.42	34.58	0.72		26.57	150.8	200.	9.88	34.60	26.68	141.5	0.512	
178.	10.21	34.62	0.40		26.64	144.9	250.	9.06	34.56	26.78	132.2	0.581	
192.	10.04	34.61	0.49		26.66	143.1	300.	8.71	34.59	26.87	125.1	0.646	
226.	9.35	34.56	0.50		26.74	136.2	400.	7.70	34.56	26.99	114.1	0.766	
253.	9.03	34.56	0.49		26.79	131.7	500.	6.87	34.54	27.10	105.4	0.877	
279.	8.92	34.60	0.48		26.84	127.5	600.	6.05	34.54	27.20	95.7	0.979	
304.	8.66	34.59	0.49		26.87	124.7	700.	5.51	34.55	27.28	89.1	1.072	
404.	7.66	34.56	0.71		27.00	113.7	800.	5.11	34.56	27.34	84.3	1.160	
507.	6.82	34.54	0.69		27.10	104.8	1000.	4.27	34.57	27.44	75.0	1.321	
607.	6.00	34.54	0.85		27.21	95.0	1200.	3.58	34.59	27.52	67.0	1.465	
808.	5.08	34.56	0.99		27.34	84.0	1500.	2.92	34.62	27.61	58.8	1.656	
1010.	4.23	34.57	1.38		27.44	74.6							
1211.	3.55	34.59	1.65		27.53	66.6							
1511.	2.90	34.62			27.61	58.6							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL DRY BULB 26.8		9, STATION WET BULB 24.0	9, 13- ON LAT, 154- WIND SPEED 12, DIR. 08	6W LCNG, CCT.	6, 1964, 0600 G.C.T.	BAR. 15	WEATHER 01	VIS. 8	CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
C.	26.88	33.67	5.11		21.78	604.4	0.	26.88	33.67	21.78	604.4	0.000
10.	26.84	33.66	5.18		21.78	604.3	10.	26.84	33.66	21.78	604.3	0.061
30.	26.74	33.66			21.81	602.0	20.	26.82	33.65	21.78	604.6	0.122
50.	26.22	33.76			22.05	580.0	30.	26.74	33.66	21.81	602.0	0.183
74.	22.88	34.66	5.59		23.73	420.4	50.	26.22	33.76	22.05	580.0	0.302
98.	20.86	34.90	5.23		24.48	350.2	75.	22.78	34.68	23.77	416.4	0.427
122.	18.67	34.85	4.68		25.01	300.0	100.	20.71	34.91	24.52	345.9	0.523
148.	14.29	34.37	3.91		25.66	238.2	150.	13.98	34.35	25.71	233.7	0.669
171.	11.62	34.27	2.93		26.11	194.9	200.	11.19	34.56	26.42	166.7	0.770
187.	11.38	34.45	1.49		26.30	177.8	250.	10.55	34.68	26.63	147.7	0.849
220.	10.91	34.66	0.48		26.55	154.8	300.	9.85	34.65	26.72	139.4	0.922
245.	10.60	34.68			26.62	148.5	400.	8.81	34.62	26.87	127.0	1.056
271.	10.32	34.68	0.29		26.67	144.3	500.	7.65	34.55	26.99	116.0	1.179
296.	9.90	34.65	0.29		26.72	140.0	600.	6.70	34.53	27.11	105.3	1.290
394.	8.88	34.62	0.40		26.86	127.7	700.	5.92	34.53	27.21	95.8	1.392
494.	7.71	34.55	0.53		26.98	116.7	800.	5.30	34.54	27.30	88.2	1.485
591.	6.78	34.53	0.68		27.10	106.2	1000.	4.48	34.55	27.40	78.8	1.654
789.	5.36	34.54	0.65		27.25	88.8	1200.	3.77	34.58	27.50	69.7	1.805
986.	4.53	34.55	0.99		27.35	79.6						
1173.	3.85	34.59	1.91		27.50	69.9						
1447.	3.09	34.61	1.50		27.59	61.2						

CROMWELL DRY BULB 25.6		9, STATION WET BULB 23.4	10, 14-29N LAT, 154- WIND SPEED 16, DIR. 07	5W LCNG, CCT.	6, 1964, 1500 G.C.T.	BAR. 15	WEATHER 02	VIS.	CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
1.	26.48	34.56			22.57	528.3	0.	26.48	34.56	22.57	528.2	0.000
10.	26.46	34.57	4.66		22.59	527.3	10.	26.46	34.57	22.59	527.3	0.053
30.	26.40	34.56			22.60	527.0	20.	26.43	34.57	22.59	527.2	0.106
50.	26.32	34.57			22.63	524.7	30.	26.40	34.56	22.60	527.0	0.159
74.	24.78	34.72	4.94		23.22	469.5	50.	26.32	34.57	22.63	524.7	0.265
99.	22.77	34.94	4.80		23.97	398.1	75.	24.70	34.73	23.25	466.5	0.390
124.	21.46	35.08			24.45	353.8	100.	22.72	34.95	24.00	396.1	0.499
150.	19.34	35.00	4.95		24.95	306.4	150.	19.34	35.00	24.95	306.4	0.676
173.	17.29	34.73	5.23		25.26	277.8	200.	14.65	34.46	25.65	240.6	0.814
188.	15.95	34.59	4.21		25.46	258.4	250.	10.76	34.20	26.21	186.8	0.921
222.	12.42	34.26	3.91		25.95	211.6	300.	9.28	34.20	26.47	162.8	1.010
248.	10.84	34.20	3.34		26.20	188.0	400.	7.84	34.40	26.84	128.4	1.157
273.	10.02	34.19	3.25		26.34	175.4	500.	7.05	34.48	27.03	112.2	1.278
298.	9.32	34.20	2.81		26.46	163.7	600.	6.20	34.49	27.15	101.3	1.386
396.	7.86	34.35	0.92		26.83	129.3	700.	5.53	34.51	27.24	92.5	1.484
494.	7.10	34.48	0.56		27.02	113.0	800.	5.01	34.52	27.32	85.8	1.574
590.	6.28	34.49	0.61		27.14	102.2	1000.	4.28	34.55	27.42	76.4	1.738
784.	5.09	34.52	0.84		27.31	86.7	1200.	3.62	34.58	27.51	68.4	1.885
978.	4.36	34.55	0.98		27.41	77.4						
1173.	3.69	34.57	1.25		27.50	69.4						
1467.	2.90	34.60	1.64		27.60	59.8						

CROMWELL DRY BULB 26.1		9, STATION WET BULB 22.2	11, 16- ON LAT, 154- WIND SPEED 20, DIR. 07	2W LCNG, OCT.	7, 1964, 0000 G.C.T.	BAR. 15	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 4			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
C.	26.22	34.59	4.72		22.68	518.3	0.	26.22	34.59	22.68	518.3	0.000
10.	26.12	34.60	4.86		22.72	515.0	10.	26.12	34.60	22.72	515.0	0.052
30.	25.80	34.60			22.82	506.3	20.	25.96	34.60	22.77	510.5	0.104
50.	25.62	34.59			22.86	502.4	30.	25.80	34.60	22.82	506.3	0.155
79.	23.99	34.54	5.01		23.32	460.1	50.	25.62	34.59	22.86	502.4	0.257
101.	22.16	34.84	5.15		24.07	388.9	75.	24.29	34.53	23.22	469.0	0.379
126.	21.24	35.07	4.88		24.50	348.8	100.	22.24	34.82	24.04	392.1	0.487
152.	19.19	34.90	4.38		24.92	310.0	150.	19.39	34.92	24.88	313.1	0.665
177.	16.16	34.57	4.01		25.40	264.1	200.	13.96	34.35	25.71	234.6	0.803
191.	14.91	34.43	3.83		25.57	247.9	250.	10.25	34.19	26.29	179.0	0.907
225.	11.56	34.19	3.67		26.06	201.0	300.	9.35	34.37	26.59	152.0	0.991
252.	10.18	34.19	2.24		26.31	177.6	400.	7.80	34.43	26.87	125.5	1.131
279.	9.40	34.22	2.58		26.46	163.2	500.	6.94	34.47	27.03	111.6	1.250
303.	9.36	34.39	1.30		26.60	150.5	600.	6.07	34.47	27.15	100.9	1.358
403.	7.74	34.42	0.68		26.88	125.2	700.	5.44	34.49	27.24	92.8	1.456
503.	6.92	34.47	0.40		27.03	111.3	800.	4.97	34.51	27.31	86.3	1.546
603.	6.04	34.47	0.53		27.15	100.7	1000.	4.16	34.53	27.42	76.6	1.711
805.	4.95	34.51	0.78		27.31	86.0	1200.	3.53	34.57	27.51	67.8	1.857
1005.	4.14	34.53	1.04		27.42	76.4	1500.	2.87	34.60	27.60	59.7	2.051
1205.	3.52	34.57	1.28		27.51	67.6						
1505.	2.86	34.60	1.64		27.60	59.6						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		9, STATION		12, 17-28N LAT, 153-59W LONG, C.T.		7, 1964, C900 G.C.T.							
DRY BULB 25.0		WET BULB 22.6		WIND SPEED 18, DIR. 08		BAR. 1E		WEATHER 02		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	26.06	34.45	4.77		22.62	523.6	0.	26.06	34.45	22.62	523.6	0.000	
10.	26.08	34.44	4.78		22.61	525.3	10.	26.08	34.44	22.61	525.3	0.053	
30.	26.00	34.46			22.65	522.3	20.	26.06	34.44	22.61	525.0	0.106	
50.	25.70	34.55			22.81	507.7	30.	26.00	34.46	22.65	522.3	0.158	
75.	23.60	34.97			23.76	418.0	50.	25.70	34.55	22.81	507.7	0.262	
100.	22.50	35.07	5.10		24.15	381.4	75.	23.60	34.97	23.76	418.0	0.379	
126.	21.04	35.05	4.72		24.54	345.0	100.	22.50	35.07	24.15	381.4	0.480	
151.	19.90	35.00	4.54		24.81	320.4	150.	19.95	35.00	24.80	321.3	0.657	
175.	18.52	34.84	4.27		25.04	298.9	200.	16.56	34.61	25.34	270.7	0.806	
201.	16.47	34.60	4.03		25.35	269.6	250.	12.06	34.22	25.99	208.5	0.927	
225.	14.39	34.38	3.76		25.64	241.7	300.	10.40	34.26	26.33	177.1	1.024	
250.	12.06	34.22	3.61		25.95	208.5	400.	8.66	34.43	26.75	138.2	1.183	
275.	10.81	34.21	3.32		26.21	187.4	500.	7.62	34.47	26.94	121.3	1.314	
299.	10.42	34.26	2.77		26.32	177.5	600.	6.69	34.48	27.07	108.7	1.430	
397.	8.70	34.43	0.87		26.74	138.9	700.	5.87	34.49	27.19	98.1	1.534	
495.	7.67	34.47	0.56		26.93	122.0	800.	5.20	34.50	27.28	89.8	1.629	
593.	6.75	34.48	0.53		27.06	109.5	1000.	4.33	34.52	27.39	79.3	1.801	
788.	5.27	34.50	0.73		27.27	90.6	1200.	3.67	34.55	27.48	70.8	1.952	
983.	4.39	34.52	1.14		27.38	80.0							
1181.	3.75	34.55	1.25		27.48	71.7							
1402.	3.15	34.58	1.97		27.56	63.9							

CROMWELL		9, STATION		13, 18-54N LAT, 153-58W LONG, C.T.	7, 1964, 1800 G.C.T.		8AR. 1B		WEATHER 02	VIS. 8	CLOUD TYPE 5, COVER 9	
DRY BULB 24.4		WET BULB 20.1		WIND SPEED 19, DIR. 09								
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	25.84	34.45	5.28		22.69	517.0	0.	25.84	34.45	22.69	517.0	0.000
10.	26.12	34.45	4.84		22.60	525.8	10.	26.12	34.45	22.60	525.8	0.053
30.	26.04	34.45			22.63	524.2	20.	26.14	34.44	22.59	527.4	0.106
50.	25.80	34.58			22.80	508.5	30.	26.04	34.45	22.63	524.2	0.159
77.	23.83	35.10	5.38		23.79	415.2	50.	25.80	34.58	22.80	508.5	0.263
106.	22.74	35.20	5.18		24.18	378.8	75.	23.99	35.06	23.71	422.5	0.380
127.	21.24	35.17	5.18		24.58	341.6	100.	22.97	35.21	24.12	384.5	0.481
153.	19.94	34.97	4.60		24.77	323.6	150.	20.08	35.00	24.76	325.2	0.660
178.	18.46	34.86	4.39		25.07	296.1	200.	16.82	34.71	25.35	269.7	0.810
192.	17.68	34.81	4.52		25.22	281.7	250.	12.44	34.23	25.92	215.1	0.932
227.	13.79	34.33	4.13		25.73	233.2	300.	10.27	34.17	26.27	182.0	1.033
254.	12.27	34.22	4.46		25.95	212.5	400.	7.80	34.15	26.66	146.0	1.198
280.	11.20	34.19	3.64		26.12	196.5	500.	6.33	34.24	26.93	120.0	1.332
294.	10.50	34.17	3.29		26.24	185.4	600.	5.74	34.35	27.10	105.4	1.446
405.	7.74	34.15	2.44		26.67	145.1	700.	5.26	34.43	27.21	94.7	1.547
506.	6.27	34.25	1.30		26.95	118.7	800.	4.83	34.48	27.30	86.8	1.639
607.	5.72	34.36	0.88		27.10	104.6	1000.	4.14	34.51	27.40	77.9	1.806
805.	4.79	34.48	0.90		27.31	86.2	1200.	3.54	34.57	27.51	68.1	1.954
1011.	4.11	34.51	1.03		27.41	77.6	1500.	2.93	34.59	27.59	61.1	2.150
1211.	3.51	34.57	1.25		27.52	67.6						
1511.	2.91	34.59	1.64		27.55	60.9						

TEMPERATURE ERROR TEMP AT 200. METERS IS 0.15

CROMWELL		9, STATION		14, 20-28N LAT, 153-56W LONG, C.T.	8, 1964, 0300 G.C.T.		8AR. 17		WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 1	
DRY BULB 25.0		WET BULB 22.2		WIND SPEED 18, DIR. 09								
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	26.04	34.87	4.91		22.54	492.7	0.	26.04	34.87	22.94	492.7	0.000
9.	26.04	34.87	4.80		22.54	493.1	10.	26.03	34.87	22.95	493.0	0.050
30.	25.86	34.86			22.95	489.3	20.	25.96	34.86	22.97	491.5	0.099
50.	25.72	34.86			23.04	486.0	30.	25.86	34.86	22.99	489.3	0.149
75.	24.20	34.85			23.49	443.6	50.	25.72	34.86	23.04	486.0	0.247
97.	22.58	34.86	5.12		23.97	398.7	75.	24.20	34.85	23.49	443.6	0.364
120.	21.05	34.92	5.85		24.44	354.5	100.	22.37	34.87	24.03	392.6	0.469
145.	19.45	34.91	4.36		24.86	315.5	150.	19.25	34.91	24.91	310.4	0.646
169.	18.42	34.88	4.45		25.09	293.4	200.	16.09	34.58	25.42	262.6	0.791
182.	17.47	34.76	4.26		25.24	280.1	250.	12.94	34.27	25.86	221.7	0.913
215.	15.02	34.45	3.85		25.56	249.4	300.	10.55	34.15	26.21	187.9	1.016
240.	13.67	34.34	4.22		25.76	230.4	400.	8.11	34.15	26.61	150.3	1.187
264.	11.97	34.18	4.14		25.98	210.1	500.	6.65	34.24	26.89	124.5	1.326
288.	10.58	34.16	3.69		26.15	194.3	600.	5.16	34.26	27.09	104.6	1.441
381.	8.39	34.13	2.91		26.55	155.9	700.	4.77	34.37	27.23	92.6	1.541
474.	7.16	34.24	1.30		26.82	131.2	800.	4.60	34.47	27.32	84.7	1.630
566.	5.42	34.23	0.98		27.04	109.9	1000.	3.95	34.52	27.43	74.6	1.792
750.	4.78	34.44	0.76		27.28	88.4	1200.	3.40	34.56	27.52	66.9	1.935
935.	4.14	34.51	0.99		27.40	77.3						
1119.	3.63	34.54	1.18		27.48	70.5						
1374.	3.00	34.58	1.63		27.57	61.9						

TEMPERATURE ERROR TEMP AT 700. METERS IS 0.12

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL		9, STATION		15, 22- 2N LAT, 153-58W LONG, OCT.		8, 1964, 1300 G.C.T.							
DRY BULB 22.8		WET BULB 21.1		WIND SPEED 18, DIR. 10		BAR. 19		WEATHER 02		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	25.14	35.09	4.88		23.35	450.4	0.	25.14	35.09	23.39	450.4	0.000	
9.	25.15	35.09	4.96		23.38	451.0	10.	25.15	35.09	23.39	451.0	0.045	
30.Δ	25.06	35.10			23.42	448.5	20.	25.11	35.10	23.40	449.9	0.091	
50.Δ	25.04	35.10			23.43	448.8	30.	25.06	35.10	23.42	448.5	0.136	
75.Δ	24.70	35.11			23.54	439.2	50.	25.04	35.10	23.43	448.8	0.226	
92.	22.98	35.19	5.31		24.10	385.6	75.	24.70	35.11	23.54	439.2	0.338	
100.Δ	22.80	35.19			24.16	381.0	100.	22.80	35.19	24.16	381.0	0.442	
114.	22.46	35.20	5.10		24.26	371.5	150.	21.64	35.29	24.56	344.6	0.624	
137.	21.95	35.26	4.94		24.45	354.3	200.	20.74	35.24	24.77	326.1	0.793	
159.	21.45	35.30	4.78		24.62	339.0	250.	17.53	34.80	25.25	280.8	0.946	
173.	21.26	35.31	4.76		24.68	333.7	300.	13.64	34.38	25.80	228.3	1.075	
204.	20.60	35.22	4.66		24.79	324.2	400.	9.37	34.09	26.37	174.6	1.278	
227.	18.99	35.01	4.59		25.05	299.7	500.	7.24	34.10	26.70	143.2	1.438	
252.	17.39	34.78	4.53		25.27	279.1	600.	5.99	34.20	26.94	119.8	1.571	
274.	15.43	34.56	4.58		25.56	251.9	700.	5.30	34.33	27.13	102.8	1.684	
366.	10.47	34.14	4.66		26.22	188.6	800.	4.80	34.41	27.26	91.1	1.782	
458.	8.03	34.08	3.34		26.57	155.5	1000.	4.04	34.50	27.41	77.3	1.952	
550.	6.49	34.14	1.70		26.83	130.4	1200.	3.49	34.55	27.50	68.6	2.100	
735.	5.15	34.37	0.77		27.18	98.1							
921.	4.28	34.47	1.08		27.36	81.8							
1093.	3.81	34.53	1.21		27.45	73.2							
1300.	3.28	34.56	1.40		27.53	66.2							

CROMWELL		9, STATION		16, 23-28N LAT, 154- 2W LONG, OCT.	8, 1964, 2100 G.C.T.							
DRY BULB 25.0		WET BULB 22.1		WIND SPEED 14, DIR. 12	BAR. 22		WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 4			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	25.34	35.05	4.91		23.30	459.1	0.	25.34	35.05	23.30	459.1	0.000
10.	25.33	35.05	4.84		23.30	459.2	10.	25.33	35.05	23.30	459.2	0.046
30.Δ	25.33	35.05			23.30	460.0	20.	25.33	35.05	23.30	459.6	0.093
50.Δ	25.33	35.05			23.30	460.8	30.	25.33	35.05	23.30	460.0	0.139
75.Δ	24.70	35.07			23.51	442.1	50.	25.33	35.05	23.30	460.8	0.232
101.	22.24	35.16	4.86		24.29	368.0	75.	24.70	35.07	23.51	442.1	0.345
125.	21.35	35.18	4.88		24.55	343.7	100.	22.34	35.16	24.26	370.8	0.448
153.	20.15	35.07	4.59		24.79	321.7	150.	20.30	35.09	24.77	324.1	0.623
177.	18.71	34.94	4.48		25.07	296.3	200.	17.58	34.81	25.25	279.5	0.775
192.	18.06	34.87	4.41		25.18	286.3	250.	14.18	34.42	25.72	235.3	0.905
226.	15.82	34.60	4.46		25.50	256.0	300.	11.80	34.19	26.02	207.3	1.016
253.	14.00	34.40	4.92		25.74	233.0	400.	9.17	34.08	26.39	172.2	1.208
279.	13.17	34.36	4.88		25.88	220.1	500.	6.84	34.02	26.69	143.2	1.367
303.	11.59	34.16	4.94		26.03	205.5	600.	5.48	34.11	26.94	119.9	1.500
405.	9.13	34.09	4.72		26.41	170.9	700.	4.77	34.24	27.12	102.5	1.612
506.	6.71	34.02	2.91		26.71	141.7	800.	4.38	34.36	27.26	89.8	1.710
606.	5.43	34.12	1.33		26.95	118.7	1000.	3.90	34.50	27.42	76.0	1.877
807.	4.36	34.37	0.67		27.27	89.1	1200.	3.37	34.55	27.52	66.9	2.022
1008.	3.89	34.50	1.12		27.42	75.6						
1169.	3.41	34.54	1.39		27.50	68.2						
1382.	2.93	34.57	1.81		27.57	61.8						

CROMWELL		9, STATION		17, 23-26N LAT, 151- 6W LONG, OCT.	9, 1964, 1300 G.C.T.							
DRY BULB 23.8		WET BULB 21.1		WIND SPEED 22, DIR. 35	BAR. 21		WEATHER 02	VIS. 8	CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	24.34	35.32			23.80	410.8	0.	24.34	35.32	23.80	410.8	0.000
11.	24.34	35.33			23.81	410.5	10.	24.34	35.33	23.81	410.5	0.041
30.Δ	24.34	35.32			23.80	412.0	20.	24.34	35.33	23.81	411.1	0.083
50.Δ	24.34	35.32			23.80	412.8	30.	24.34	35.32	23.80	412.0	0.124
74.	21.99	35.26			24.44	353.0	50.	24.34	35.32	23.80	412.8	0.207
98.	20.98	35.27			24.72	326.6	75.	21.93	35.26	24.45	351.4	0.304
122.	20.48	35.24			24.84	316.7	100.	20.93	35.27	24.74	325.5	0.389
146.	19.98	35.23			24.96	305.6	150.	19.87	35.22	24.98	303.9	0.547
170.	19.03	35.08			25.09	293.7	200.	17.01	34.75	25.34	271.1	0.692
184.	18.08	34.91			25.20	283.6	250.	13.78	34.38	25.77	230.0	0.819
217.	15.89	34.60			25.48	257.2	300.	11.49	34.23	26.10	198.9	0.927
243.	14.16	34.41			25.72	235.3	400.	8.81	34.07	26.44	166.9	1.111
267.	12.93	34.32			25.90	218.1	500.	6.62	34.05	26.74	138.1	1.265
290.	11.85	34.25			26.05	203.4	600.	5.35	34.16	26.99	114.8	1.393
385.	9.20	34.09			26.35	171.6	700.	4.76	34.28	27.15	99.6	1.501
482.	6.94	34.04			26.69	143.0	800.	4.48	34.39	27.27	89.3	1.597
578.	5.53	34.13			26.95	118.9	1000.	3.96	34.50	27.42	76.1	1.764
770.	4.58	34.36			27.24	92.1	1200.	3.46	34.56	27.52	67.3	1.909
962.	4.06	34.49			27.40	78.0						
1148.	3.58	34.54			27.48	70.1						
1423.	2.94	34.58			27.58	61.5						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL DRY BULB 25.0		9, STATION 18, 22- ON LAT, 151- CW LCNG, OCT.		9, 1964, 2200 G.C.T.		BAR. 21 WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	25.58	34.93			23.13	474.8	0.	25.58	34.93	23.13	474.8	0.000
10.	25.51	34.93			23.15	473.1	10.	25.51	34.93	23.15	473.1	0.048
30.	25.51	34.93			23.15	473.9	20.	25.50	34.93	23.16	473.2	0.095
50.	25.51	34.93			23.15	474.7	30.	25.51	34.93	23.15	473.9	0.143
77.	23.31	35.17			23.99	395.6	50.	25.51	34.93	23.15	474.7	0.239
102.	22.04	35.19			24.37	360.5	75.	23.50	35.15	23.92	402.2	0.349
127.	21.33	35.24			24.61	338.9	100.	22.12	35.19	24.35	362.4	0.445
153.	20.51	35.22			24.81	320.0	150.	20.62	35.23	24.79	322.2	0.618
177.	19.20	35.04			25.02	301.0	200.	18.28	34.92	25.16	288.3	0.772
193.	18.75	34.99			25.10	294.2	250.	14.50	34.42	25.65	241.9	0.905
226.	16.18	34.61			25.43	263.2	300.	11.89	34.16	25.98	210.8	1.020
254.	14.24	34.39			25.68	238.7	400.	8.34	34.08	26.52	159.4	1.206
279.	12.81	34.24			25.86	221.9	500.	6.30	34.06	26.79	133.2	1.354
304.	11.73	34.15			26.00	208.8	600.	5.13	34.18	27.03	110.4	1.477
404.	8.23	34.08			26.54	157.6	700.	4.60	34.30	27.19	96.3	1.582
507.	6.20	34.06			26.81	131.8	800.	4.38	34.39	27.29	87.5	1.674
607.	5.07	34.19			27.05	109.0	1000.	3.86	34.51	27.43	74.8	1.839
808.	4.37	34.40			27.29	87.0	1200.	3.35	34.55	27.52	67.0	1.982
1010.	3.84	34.51			27.43	74.3						
1202.	3.34	34.55			27.52	66.9						
1437.	2.81	34.58			27.59	60.0						

CROMWELL		9, STATION 19, 20-26N LAT, 150-59W LONG, OCT. 10, 1964, 0800 G.C.T.											
DRY BULB 24.6		WET PULB 21.8		WIND SPEED 18, DIR. C7		BAR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
1.	25.86	34.84			22.58	489.6	0.	25.86	34.84	22.98	489.6	0.000	
11.	25.84	34.84			22.58	489.4	10.	25.84	34.84	22.98	489.4	0.049	
30.Δ	25.82	34.84			22.59	489.6	20.	25.83	34.84	22.99	489.4	0.099	
50.Δ	25.80	34.84			23.00	489.8	30.	25.82	34.84	22.99	489.6	0.148	
74.	24.51	34.90			23.43	448.8	50.	25.80	34.84	23.00	489.8	0.247	
98.	23.14	35.07			23.97	398.9	75.	24.45	34.91	23.46	446.5	0.364	
122.	22.48	35.13			24.20	377.4	100.	23.08	35.08	23.99	396.8	0.471	
147.	21.47	35.26			24.58	341.9	150.	21.33	35.25	24.61	339.1	0.656	
171.	20.32	35.14			24.86	321.6	200.	18.96	35.01	25.06	298.0	0.817	
185.	19.65	35.10			24.95	308.1	250.	15.39	34.52	25.54	252.9	0.956	
218.	17.96	34.86			25.19	285.5	300.	11.83	34.18	26.01	208.2	1.072	
244.	15.83	34.58			25.48	258.2	400.	8.51	34.11	26.52	159.8	1.257	
269.	14.03	34.37			25.71	236.3	500.	6.94	34.23	26.84	129.1	1.403	
293.	12.22	34.21			25.95	213.2	600.	6.01	34.33	27.05	110.4	1.524	
391.	8.71	34.10			26.48	163.2	700.	5.43	34.41	27.18	98.1	1.630	
489.	7.07	34.22			26.82	131.7	800.	5.01	34.47	27.27	89.8	1.725	
586.	6.11	34.32			27.02	112.5	1000.	4.22	34.51	27.40	78.6	1.895	
782.	5.09	34.46			27.26	91.2	1200.	3.62	34.55	27.49	70.6	2.046	
979.	4.29	34.51			27.35	79.5							
1169.	3.74	34.54			27.47	72.2							
1428.	3.09	34.57			27.56	64.0							

CROMWELL		9, STATION 20, 18-54N LAT, 150-58W LCNG, OCT. 10, 1964, 1700 G.C.T.											
DRY BULB 22.4		WET BULB 21.1		WIND SPEED 20, DIR. C7		BAR. 17		WEATHER 21		VIS. 7		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.OPTH.	
0.	25.51	34.72			23.00	487.9	0.	25.51	34.72	23.00	487.9	0.000	
11.	25.54	34.72			22.99	489.2	10.	25.54	34.72	22.99	489.1	0.049	
30. ^Δ	25.54	34.72			22.99	489.9	20.	25.55	34.72	22.98	489.7	0.098	
50. ^Δ	25.52	34.72			22.99	490.1	30.	25.54	34.72	22.99	489.9	0.148	
75. ^Δ	25.50	34.72			23.00	490.6	50.	25.52	34.72	22.99	490.1	0.247	
103.	22.89	35.07			24.04	392.2	75.	25.50	34.72	23.00	490.6	0.370	
129.	21.86	35.22			24.44	354.5	100.	23.20	35.03	23.92	403.6	0.483	
154.	21.05	35.24			24.68	332.6	150.	21.17	35.24	24.65	335.5	0.669	
181.	20.15	35.18			24.88	314.8	200.	19.34	35.07	25.01	303.1	0.830	
212.	18.61	34.96			25.11	293.6	250.	14.75	34.44	25.61	245.6	0.968	
231.	16.83	34.71			25.35	270.6	300.	11.75	34.19	26.03	206.1	1.082	
258.	13.95	34.34			25.71	236.5	400.	9.33	34.39	26.61	151.9	1.263	
284.	12.58	34.23			25.90	218.4	500.	7.75	34.40	26.86	128.4	1.404	
309.	11.32	34.18			26.10	199.4	600.	6.52	34.38	27.02	113.8	1.526	
412.	9.22	34.43			26.66	147.4	700.	5.72	34.41	27.14	102.3	1.636	
512.	7.58	34.39			26.88	126.8	800.	5.17	34.45	27.24	93.1	1.734	
614.	6.38	34.38			27.04	112.1	1000.	4.39	34.52	27.38	80.5	1.910	
817.	5.10	34.46			27.26	91.7	1200.	3.77	34.56	27.48	71.6	2.064	
1016.	4.34	34.52			27.39	79.7	1500.	2.97	34.59	27.58	61.7	2.267	
1218.	3.72	34.56			27.45	70.9							
1519.	2.93	34.59			27.59	61.2							

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL DRY BULB 24.9		9, STATION WET BULB 22.8		21, 17-29N LAT, 150-57W LONG, OCT. 11, 1964, 0200 G.C.T.		WIND SPEED 18, DIR. C5		BAR. 15	WEATHER 03	VIS. 8	CLOUD TYPE 9, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	25.94	34.65			22.81	505.6	0.	25.94	34.65	22.81	505.6	0.000
11.	25.77	34.65			22.86	501.0	10.	25.78	34.65	22.86	501.4	0.051
50.	25.56	34.70			22.96	492.8	20.	25.70	34.65	22.89	498.8	0.101
78.	25.38	34.78			23.08	482.8	30.	25.63	34.67	22.92	496.6	0.151
98.	23.27	34.68			23.63	430.6	50.	25.56	34.70	22.96	492.8	0.251
127.	21.88	35.00			24.27	370.8	75.	25.48	34.78	23.05	485.8	0.374
154.	20.02	34.84			24.65	335.1	100.	23.15	34.70	23.68	425.9	0.489
179.	17.61	34.63			25.10	292.7	150.	20.34	34.88	24.60	340.1	0.682
194.	16.50	34.59			25.34	270.7	200.	15.96	34.54	25.42	262.9	0.834
228.	13.41	34.29			25.78	228.6	250.	11.65	34.24	26.08	199.9	0.951
254.	11.41	34.24			26.13	195.3	300.	10.69	34.49	26.45	165.2	1.043
280.	11.05	34.38			26.30	179.2	400.	8.90	34.49	26.75	138.0	1.196
306.	10.57	34.52			26.50	161.1	500.	7.95	34.49	26.90	124.9	1.328
406.	8.81	34.47			26.75	137.8	600.	6.80	34.46	27.04	111.6	1.448
508.	7.89	34.49			26.91	124.0	700.	5.97	34.46	27.15	101.7	1.556
609.	6.70	34.46			27.06	110.5	800.	5.40	34.48	27.24	94.1	1.655
811.	5.35	34.48			27.24	93.4	1000.	4.56	34.51	27.36	83.2	1.834
1012.	4.52	34.51			27.36	82.7	1200.	3.81	34.55	27.47	72.8	1.992
1212.	3.77	34.55			27.47	72.2	1500.	3.03	34.59	27.58	62.4	2.198
1514.	3.00	34.59			27.58	62.1	2000.	2.20	34.64	27.69	51.3	2.487
2011.	2.19	34.64			27.69	51.2	2500.	1.83	34.67	27.74	46.5	2.736
2511.	1.93	34.67			27.74	46.4	3000.	1.63	34.69	27.77	43.8	2.966
2909.	1.66	34.69			27.77	44.1	4000.	1.48	34.70	27.79	43.9	3.416
4007.	1.48	34.70			27.75	43.9						
4999.	1.44	34.71			27.80	45.0						

CROMWELL DRY BULB 24.4		9, STATION WET BULB 21.8		22, 15-59N LAT, 151- 2W LONG, OCT. 11, 1964, 1200 G.C.T.		WIND SPEED 02, DIR. C9		BAR. 17	WEATHER 01	VIS.	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	26.09	34.22			22.44	541.0	C.	26.09	34.22	22.44	541.0	0.000
9.	26.08	34.22			22.44	541.1	10.	26.07	34.22	22.45	540.7	0.054
30.	25.78	34.28			22.58	528.7	20.	25.95	34.24	22.50	535.9	0.109
50.	25.42	34.36			22.75	513.1	30.	25.78	34.28	22.58	528.7	0.162
67.	23.80	34.75			23.53	439.2	50.	25.42	34.36	22.55	513.1	0.267
75.	22.70	34.96			24.01	393.9	75.	22.70	34.96	24.01	393.9	0.382
91.	21.86	35.06			24.32	364.6	100.	21.32	35.09	24.50	348.4	0.475
113.	20.39	35.08			24.74	325.7	150.	16.30	34.60	25.39	264.2	0.629
135.	18.26	34.85			25.11	290.6	200.	11.89	34.54	26.27	180.9	0.742
156.	15.48	34.50			25.50	253.8	250.	11.05	34.70	26.55	154.9	0.826
170.	13.72	34.32			25.74	231.0	300.	10.51	34.70	26.65	147.0	0.902
199.	11.92	34.53			26.26	181.9	400.	9.43	34.65	26.79	134.6	1.044
223.	11.48	34.68			26.46	163.5	500.	8.27	34.58	26.93	122.7	1.174
245.	11.12	34.70			26.54	156.2	600.	7.31	34.54	27.03	113.5	1.294
267.	10.82	34.70			26.59	151.4	700.	6.47	34.51	27.13	105.0	1.404
352.	10.06	34.68			26.71	141.7	800.	5.83	34.51	27.21	97.4	1.506
439.	8.91	34.62			26.86	129.0	1000.	4.77	34.53	27.35	84.1	1.690
526.	8.02	34.57			26.95	120.4	1200.	3.93	34.55	27.46	73.8	1.850
699.	6.48	34.51			27.12	105.1						
875.	5.42	34.52			27.27	92.1						
1054.	4.52	34.54			27.35	80.9						
1332.	3.50	34.57			27.52	68.4						

CROMWELL DRY BULB 25.3		9, STATION WET BULB 23.9		23, 14-36N LAT, 151- 1W LONG, OCT. 11, 1964, 2000 G.C.T.		WIND SPEED 10, DIR. C4		BAR. 17	WEATHER 03	VIS. 7	CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	26.50	33.95			22.11	572.7	0.	26.50	33.95	22.11	572.7	0.000
10.	26.42	33.95			22.13	570.7	10.	26.42	33.95	22.13	570.7	0.058
30.	26.40	33.95			22.14	570.9	20.	26.40	33.95	22.14	570.6	0.115
50.	26.30	33.95			22.17	568.7	30.	26.40	33.95	22.14	570.9	0.173
76.	18.63	34.43			24.70	327.9	50.	26.30	33.95	22.17	568.7	0.267
101.	13.77	34.37			25.77	226.4	75.	18.98	34.41	24.60	337.6	0.402
127.	11.65	34.28			26.12	193.7	100.	13.91	34.38	25.74	228.7	0.473
152.	10.71	34.40			26.38	168.9	150.	10.75	34.39	26.36	170.6	0.573
177.	10.37	34.47			26.45	158.6	200.	10.33	34.57	26.58	150.8	0.654
192.	10.38	34.56			26.56	152.4	250.	9.43	34.51	26.69	141.4	0.728
226.	9.97	34.55			26.63	147.0	300.	8.80	34.52	26.80	131.7	0.797
253.	9.36	34.51			26.70	140.6	400.	7.65	34.49	26.95	118.6	0.923
279.	9.05	34.53			26.76	134.7	500.	6.78	34.50	27.07	107.2	1.037
304.	8.75	34.52			26.80	131.3	600.	6.00	34.50	27.18	97.9	1.141
405.	7.60	34.49			26.95	118.0	700.	5.44	34.51	27.25	91.2	1.236
507.	6.73	34.50			27.08	106.5	800.	5.01	34.52	27.31	86.0	1.326
607.	5.95	34.50			27.19	97.3	1000.	4.24	34.54	27.42	76.9	1.491
808.	4.98	34.52			27.32	85.6	1200.	3.55	34.58	27.52	67.4	1.637
1010.	4.20	34.54			27.42	76.5	1500.	2.86	34.61	27.61	58.9	1.829
1210.	3.52	34.58			27.52	66.9						
1512.	2.84	34.61			27.61	58.6						

FROM ST DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 9, STATION 24, 12-59N LAT, 150-59W LONG, OCT. 12, 1964, 0600 G.C.T.												
DRY BULB 26.1		WET BULB 23.3		WIND SPEED 05, DIR. C6		BAR. 16		WEATHER 02		VIS.		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.OPTH.
0.	26.47	34.14			22.26	558.2	0.	26.47	34.14	22.26	558.2	0.000
10.	26.39	34.29			22.40	545.4	10.	26.39	34.29	22.40	545.4	0.056
30. Δ	26.26	34.37			22.50	536.5	20.	26.34	34.34	22.45	540.7	0.110
50.	25.81	34.57			22.75	509.5	30.	26.26	34.37	22.50	536.5	0.165
75.	21.01	34.72			24.30	366.2	50.	25.81	34.57	22.79	509.5	0.270
99.	17.95	34.79			25.14	286.4	75.	21.01	34.72	24.30	366.2	0.380
124.	15.10	34.46			25.55	247.7	100.	17.84	34.78	25.16	284.6	0.462
148.	11.96	34.28			26.06	199.8	150.	11.77	34.27	26.08	197.2	0.584
172.	10.59	34.30			26.32	174.7	200.	10.82	34.63	26.54	155.1	0.672
186.	10.72	34.52			26.47	161.0	250.	10.39	34.69	26.66	144.5	0.748
219.	10.82	34.68			26.58	151.8	300.	9.59	34.65	26.76	135.3	0.818
245.	10.46	34.69			26.65	145.4	400.	8.14	34.57	26.93	120.2	0.947
271.	10.08	34.67			26.70	141.0	500.	7.15	34.54	27.06	109.3	1.083
295.	9.67	34.65			26.75	136.2	600.	6.30	34.54	27.17	99.0	1.168
393.	8.22	34.57			26.92	121.1	700.	5.62	34.54	27.26	91.3	1.265
492.	7.22	34.54			27.05	110.2	800.	5.08	34.54	27.32	85.2	1.354
591.	6.37	34.54			27.16	99.8	1000.	4.26	34.56	27.43	75.5	1.516
787.	5.14	34.54			27.32	86.0	1200.	3.64	34.59	27.52	67.7	1.662
984.	4.32	34.56			27.42	76.2						
1180.	3.71	34.59			27.51	68.3						
1478.	3.02	34.61			27.59	60.6						

CROMWELL 9, STATION 25, 11-27N LAT, 150-54W LONG, OCT. 12, 1964, 1600 G.C.T. DRY BULB 25.8 WET BULB 23.8 WIND SPEED 12, DIR. 05 BAR. 15 WEATHER 01 VIS. 8 CLOUD TYPE , COVER												
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN. OPTH.
0.	26.89	33.65			21.76	606.1	0.	26.89	33.65	21.76	606.1	0.000
10.	26.84	33.66			21.78	604.3	10.	26.84	33.66	21.78	604.3	0.061
20. Δ	26.80	33.68			21.81	602.0	20.	26.80	33.68	21.81	602.0	0.122
30. Δ	26.60	33.71			21.90	594.2	30.	26.60	33.71	21.90	594.2	0.182
50. Δ	20.50	34.13			23.99	394.9	50.	20.50	34.13	23.99	394.9	0.282
77.	13.62	34.34			25.78	225.0	75.	14.02	34.33	25.69	233.4	0.361
102.	11.44	34.37			26.22	182.7	100.	11.51	34.37	26.21	184.0	0.413
127.	11.17	34.54			26.41	166.0	150.	11.03	34.66	26.52	155.4	0.499
153.	11.01	34.67			26.54	154.3	200.	10.46	34.72	26.67	142.5	0.574
178.	10.66	34.70			26.62	146.6	250.	10.09	34.70	26.72	138.7	0.645
193.	10.57	34.72			26.65	143.9	300.	9.40	34.66	26.81	131.0	0.719
226.	10.09	34.69			26.71	138.7	400.	8.60	34.62	26.91	123.2	0.841
254.	10.09	34.70			26.72	138.6	500.	7.61	34.56	27.01	114.3	0.961
280.	9.63	34.67			26.78	133.8	600.	6.70	34.55	27.13	103.7	1.071
305.	9.35	34.66			26.82	130.5	700.	5.98	34.55	27.22	95.5	1.172
406.	8.56	34.62			26.91	122.9	800.	5.41	34.55	27.29	88.9	1.265
508.	7.53	34.56			27.02	113.5	1000.	4.45	34.56	27.41	78.1	1.434
609.	6.62	34.55			27.14	102.8	1200.	3.80	34.58	27.49	70.3	1.584
810.	5.36	34.55			27.30	88.4	1500.	3.05	34.61	27.59	61.2	1.784
1011.	4.41	34.56			27.41	77.6	2000.	2.28	34.65	27.69	51.6	2.071
1213.	3.76	34.58			27.50	69.9	2500.	1.90	34.67	27.74	47.4	2.323
1511.	3.03	34.61			27.59	60.9	3000.	1.73	34.68	27.76	46.1	2.561
2010.	2.27	34.65			27.69	51.4	4000.	1.46	34.70	27.79	43.6	3.021
2509.	1.90	34.67			27.74	47.3						
3006.	1.73	34.68			27.76	46.1						
4003.	1.46	34.70			27.75	43.6						

CROMWELL 9, STATION 26, 10- IN LAT, 148- 2W LONG, OCT. 13, 1964, 1100 G.C.T. DRY BULB 26.0 WET BULB 24.0 WIND SPEED 12, DIR. 09 BAR. 15 WEATHER 01 VIS. CLOUD TYPE , COVER												
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN. OPTH.
0.	26.58	33.14	4.92		21.47	633.5	0.	26.58	33.14	21.47	633.5	0.000
9. Δ	26.61	33.14	4.69		21.46	634.7	10.	26.44	33.18	21.55	626.7	0.063
30.	21.70	34.25			23.75	416.6	20.	24.41	33.67	22.54	532.6	0.122
48.	18.34	34.66	4.29		24.95	303.4	30.	21.70	34.25	23.75	416.6	0.170
72.	13.75	34.36	2.91		25.76	226.0	50.	17.90	34.64	25.04	294.2	0.241
96.	12.29	34.55	0.83		26.20	184.7	75.	13.46	34.37	25.83	219.5	0.306
118.	11.72	34.69	0.39		26.42	164.6	100.	12.16	34.58	26.25	180.2	0.356
142.	11.11	34.74	0.27		26.57	150.6	150.	10.97	34.74	26.60	148.5	0.439
165.	10.77	34.73	0.42		26.63	146.0	200.	10.43	34.73	26.67	140.8	0.512
179.	10.62	34.73	0.43		26.65	143.7	250.	9.95	34.71	26.76	135.1	0.582
211.	10.33	34.73	0.40		26.70	139.5	300.	9.52	34.69	26.81	130.6	0.649
236.	10.09	34.72	0.36		26.74	136.7	400.	8.94	34.66	26.88	125.5	0.778
259.	9.86	34.71	0.43		26.77	134.1	500.	8.27	34.63	26.96	119.5	0.902
283.	9.64	34.70	0.56		26.80	131.8	600.	7.47	34.59	27.05	112.2	1.019
377.	9.08	34.67	0.59		26.87	126.8	700.	6.57	34.56	27.15	102.8	1.127
471.	8.47	34.64	0.79		26.94	121.2	800.	5.81	34.55	27.24	94.3	1.227
564.	7.80	34.60	0.47		27.01	115.5	1000.	4.80	34.57	27.38	82.0	1.405
753.	6.11	34.55	0.58		27.20	97.7	1200.	3.99	34.58	27.48	72.5	1.562
942.	5.07	34.56	0.99		27.34	85.3						
1132.	4.25	34.58	1.33		27.45	75.3						
1377.	3.44	34.59	1.68		27.54	66.5						

TEMPERATURE ERROR TERM AT 20. METERS IS 0.33
SALINITY ERROR TERM AT 20. METERS IS 0.09

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 9, STATION 27, 11-28N LAT, 147-59W LONG, OCT. 13, 1964, 2000 G.C.T.													
DRY BULB 26.0		WET BULB 24.1		WIND SPEED 16, DIR. 07		BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PG4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	26.81	33.31	4.70		21.53	628.2	0.	26.81	33.31	21.53	628.2	0.000	
10.	26.81	33.31	4.79		21.53	628.6	10.	26.81	33.31	21.53	628.6	0.063	
20.	26.74	33.31			21.55	626.8	20.	26.74	33.31	21.55	626.8	0.127	
30.	24.60	33.30			22.20	565.0	30.	24.60	33.30	22.20	565.0	0.187	
51.	16.85	33.43	3.55		24.37	358.6	50.	17.22	33.41	24.27	368.1	0.281	
77.	12.99	34.55	0.87		26.07	197.4	75.	13.12	34.46	25.97	206.4	0.353	
102.	11.99	34.75	0.27		26.42	164.7	100.	12.01	34.75	26.41	164.8	0.400	
126.	11.53	34.77	0.27		26.52	155.5	150.	11.18	34.76	26.58	150.4	0.479	
153.	11.14	34.76	0.30		26.58	149.9	200.	10.60	34.73	26.65	144.1	0.553	
178.	10.89	34.75	0.40		26.62	146.9	250.	10.18	34.72	26.72	138.4	0.624	
193.	10.68	34.73	0.53		26.64	145.1	300.	9.78	34.71	26.78	133.7	0.693	
226.	10.37	34.73	0.59		26.70	140.5	400.	9.17	34.67	26.85	128.5	0.825	
254.	10.15	34.72	0.58		26.73	138.1	500.	8.25	34.62	26.96	119.6	0.951	
279.	9.94	34.71	0.47		26.76	135.9	600.	7.26	34.57	27.07	110.0	1.067	
304.	9.75	34.71	0.49		26.79	133.3	700.	6.41	34.55	27.17	100.9	1.173	
405.	9.14	34.67	0.34		26.86	128.3	800.	5.71	34.55	27.25	92.9	1.271	
506.	8.19	34.62	0.44		26.97	119.0	1000.	4.78	34.56	27.37	82.2	1.446	
607.	7.19	34.57	0.42		27.07	109.4	1200.	4.10	34.58	27.46	74.1	1.607	
808.	5.66	34.55	0.84		27.26	92.3	1500.	3.29	34.61	27.57	64.2	1.817	
1010.	4.74	34.56	1.00		27.38	81.8							
1211.	4.07	34.58	1.33		27.47	73.7							
1511.	3.27	34.61	1.68		27.57	63.9							

CROMWELL 9, STATION 28, 12-58N LAT, 147-59W LONG, OCT. 14, 1964, 0500 G.C.T.												
DRY BULB 26.1		WET BULB 23.7		WIND SPEFO 19, DIR. 07		BAR. 16		WEATHER 02		VIS. 7		
								CLOUD TYPE 8, COVER 2				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	26.55	33.66	4.87		21.87	595.1	0.	26.55	33.66	21.87	595.1	0.000
10.	26.57	33.66	4.84		21.87	596.1	10.	26.57	33.66	21.87	596.1	0.060
20.	26.50	33.66			21.89	594.4	20.	26.50	33.66	21.89	594.4	0.120
30.	26.00	33.77			22.13	571.9	30.	26.00	33.77	22.13	571.9	0.179
50.	19.69	34.60	4.74		24.56	340.6	50.	19.69	34.60	24.56	340.6	0.271
77.	15.23	34.45	3.90		25.52	249.8	75.	15.46	34.49	25.49	252.1	0.345
100.	12.16	34.33	2.04		26.06	198.6	100.	12.16	34.33	26.06	198.6	0.402
124.	11.58	34.57	0.57		26.35	171.0	150.	11.36	34.73	26.52	156.0	0.491
150.	11.36	34.73	0.35		26.52	156.0	200.	10.59	34.71	26.64	145.4	0.567
174.	10.91	34.72	0.37		26.59	149.3	250.	10.02	34.69	26.73	138.1	0.639
189.	10.72	34.71	0.28		26.62	147.1	300.	9.41	34.65	26.80	132.1	0.707
222.	10.33	34.70	0.26		26.68	141.9	400.	8.54	34.62	26.91	122.5	0.835
248.	10.04	34.69	0.33		26.72	138.4	500.	7.74	34.59	27.01	114.4	0.955
274.	9.76	34.68	0.32		26.76	135.0	600.	6.83	34.56	27.12	104.9	1.066
298.	9.43	34.65	0.36		26.79	132.3	700.	6.09	34.54	27.20	97.2	1.168
396.	8.57	34.62	0.33		26.91	122.8	800.	5.51	34.54	27.27	90.9	1.263
496.	7.78	34.59	0.41		27.01	114.8	1000.	4.73	34.56	27.38	81.5	1.437
595.	6.87	34.56	0.58		27.11	105.3	1200.	3.96	34.58	27.48	72.4	1.593
793.	5.54	34.54 *	0.79		27.27	91.3						
993.	4.76	34.56	1.06		27.38	81.9						
1190.	3.98	34.58	2.23		27.48	72.4						
1380.	3.34	34.59	1.82		27.55	65.3						

CROMWELL 9, STATION 29, 14-29N LAT, 147-58W LONG, OCT. 14, 1964, 1400 G.C.T.													
DRY BULB 25.6		WET BULB 22.4		WIND SPEED 20, DIR. 06		BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
1.	26.36	33.78	4.85		22.02	580.8	0.	26.36	33.78	22.02	580.8	0.000	
11.	26.37	33.78	4.91		22.02	581.5	10.	26.37	33.78	22.02	581.5	0.059	
10.Δ	26.26	33.78			22.06	579.0	20.	26.53	33.74	21.94	589.5	0.118	
52.	22.00	34.52	4.84		23.87	405.9	30.	26.26	33.78	22.06	579.0	0.176	
78.	18.45	34.68	4.60		24.93	305.5	50.	22.46	34.45	23.69	423.3	0.277	
103.	14.88	34.38	3.29		25.54	248.3	75.	18.82	34.69	24.85	313.4	0.370	
128.	12.22	34.20	3.50		25.95	209.9	100.	15.29	34.42	25.48	253.6	0.442	
154.	10.86	34.27	2.47		26.25	181.1	150.	11.00	34.25	26.21	185.0	0.552	
179.	10.34	34.41	1.54		26.45	162.5	200.	10.23	34.52	26.56	152.7	0.637	
174.	10.30	34.51	1.00		26.54	154.8	250.	9.94	34.63	26.69	141.6	0.711	
228.	9.91	34.55	0.65		26.64	146.1	300.	9.30	34.61	26.78	133.4	0.781	
255.	9.75	34.64	0.40		26.70	140.7	400.	8.29	34.57	26.91	122.2	0.910	
273.*	9.80*	34.64	0.28		26.72	138.6	500.	7.32	34.54	27.03	112.0	1.028	
281.	9.65	34.63	0.13		26.74	137.0	600.	6.43	34.53	27.15	101.6	1.136	
306.	9.19	34.60	0.17		26.79	132.3	700.	5.72	34.51	27.22	94.6	1.235	
406.	0.25	34.57	0.19		26.92	121.8	800.	5.13	34.52	27.30	87.6	1.327	
508.	7.23	34.54	0.41		27.05	110.6	1000.	4.34	34.55	27.41	77.5	1.494	
516.*	7.13	34.55	0.53		27.07	108.6	1200.	3.70	34.58	27.50	69.0	1.642	
608.	6.34	34.52	0.38		27.15	101.6							
811.	5.07	34.52	0.83		27.31	86.8							
1012.	4.30	34.55	1.08		27.42	77.0							
1200.**	3.70**	34.58**			27.50	69.0							

TEMPERATURE ERROR TERM AT 20. METERS IS 0.13

ΔFROM 8T DATA
 *INTERPOLATED DATA
 **EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA		INTERPOLATED DATA							
CROMWELL 9, STATION 30, 16- ON LAT, 147-57W LONG, OCT. 14, 1964, 2300 G.C.T.													
DRY BULB 24.8		WET BULB 21.9		WIND SPEED 17, DIR. 08		BAR. 17		WEATHER 02		VIS. 8		CLOUD TYPE 3, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	LYN.DPTH.	
0.	26.29	33.84	4.82		22.09	574.4	0.	26.29	33.84	22.09	574.4	0.000	
5. Δ	26.25	33.84	4.84		22.10	573.5	10.	26.25	33.84	22.10	573.5	0.038	
20.	26.23	33.84			22.11	573.4	20.	26.23	33.84	22.11	573.4	0.116	
30. Δ	26.20	33.85			22.11	572.1	30.	26.20	33.85	22.13	572.1	0.173	
50. Δ	23.80	34.28			23.19	472.4	50.	23.80	34.28	23.18	472.4	0.778	
71.	20.27	34.72	5.12		24.50	347.1	75.	19.58	34.70	24.66	331.3	0.380	
93.	16.66	34.48	3.96		25.21	279.2	100.	15.69	34.42	25.39	262.7	0.455	
117.	13.77	34.31	3.18		25.72	231.3	150.	11.89	34.32	26.10	145.6	0.570	
141.	12.27	34.30	1.94		26.01	203.8	200.	11.12	34.62	26.67	101.2	0.560	
164.	11.49	34.40	1.74		26.24	182.9	250.	9.44	34.42	26.62	148.2	0.718	
176.	11.33	34.54	0.83		26.38	170.0	300.	9.39	34.55	26.72	138.9	0.910	
207.	11.00	34.60	0.74		26.48	160.5	400.	8.11	34.50	26.88	124.8	0.743	
232.	9.97	34.48	0.88		26.57	152.3	500.	6.90	34.45	27.07	112.7	1.063	
255.	9.35	34.42	1.11		26.63	147.1	600.	6.07	34.47	27.14	101.2	1.171	
278.	9.50	34.52	0.44		26.68	142.6	700.	5.44	34.49	27.24	92.3	1.269	
372.	8.49	34.52	0.32		26.84	128.5	800.	4.96	34.52	27.32	85.3	1.359	
466.	7.25	34.45	0.40		26.97	116.9	1000.	4.25	34.54	27.42	77.0	1.523	
605.	6.04	34.47	0.52		27.15	100.7	1200.	3.57	34.57	27.51	68.3	1.670	
804.	4.94	34.52	0.79		27.32	85.1	1500.	2.88	34.60	27.60	59.9	1.365	
1005.	4.23	34.54	0.98		27.42	76.8							
1204.	3.56	34.57	1.24		27.51	68.1							
1506.	2.87	34.60	1.58		27.60	59.7							

CROWWELL		9, STATION 31, 17-29N LAT, 148- 3W LONG, OCT. 15, 1964, 0900 G.C.T.												
DRY BULB	25.0	WET BULB	22.2	WIND SPEED	26.0	AIR	07	BAR.	18	WEATHER	02	VIS.	CLOUD TYPE	COVER
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	LYN.DPTH.		
1.	25.71	34.29	4.77		22.61	524.8	0.	25.71	34.29	22.61	524.7	0.000		
8.	25.75	34.29	4.82		22.60	526.2	10.	25.74	34.29	22.60	526.3	0.053		
20. Δ	25.60	34.29			22.64	522.3	20.	25.60	34.29	22.64	522.3	0.106		
30. Δ	25.30	34.36			22.79	508.8	30.	25.30	34.36	22.79	508.8	0.158		
50. Δ	25.28	34.37			22.80	508.3	50.	25.28	34.37	22.80	508.3	0.260		
75. Δ	23.70	34.80			23.60	433.1	75.	23.70	34.80	23.60	433.1	0.379		
99.	22.54	35.05	5.05		24.12	383.9	100.	22.69	35.06	24.14	382.5	0.481		
123.	21.38	35.11	4.89		24.49	349.5	150.	19.76	35.03	24.77	314.6	0.657		
148.	19.99	35.06	4.66		24.83	318.2	200.	15.04	34.46	25.56	249.0	0.799		
172.	17.24	34.69	4.14		25.24	279.6	250.	10.83	34.17	26.19	190.3	0.910		
186.	16.34	34.60	4.18		25.38	266.2	300.	9.42	34.28	26.51	159.0	0.998		
219.	13.16	34.27	3.92		25.81	224.9	400.	8.47	34.48	26.32	131.5	1.145		
245.	11.11	34.17	3.75		26.13	194.9	500.	7.23	34.46	26.98	116.5	1.270		
270.	10.00	34.19	3.23		26.34	175.0	600.	6.40	34.46	27.10	106.0	1.382		
294.	9.50	34.26	2.27		26.48	162.1	700.	5.73	34.48	27.20	97.0	1.485		
391.	8.59	34.48	0.88		26.80	133.4	800.	5.20	34.50	27.29	89.4	1.579		
489.	7.34	34.46	0.84		26.97	117.8	1000.	4.41	34.54	27.40	78.9	1.750		
585.	6.51	34.46	0.75		27.08	107.5	1200.	3.78	34.56	27.48	71.3	1.902		
780.	5.29	34.50	0.63		27.27	90.8								
975.	4.50	34.54	0.86		27.39	79.9								
1171.	3.87	34.55	1.10		27.46	73.1								
1467.	3.16	34.59	1.48		27.57	63.7								

CROMWELL DRY BULB 23.9		9, STATION WET BULB 22.0		32, 18-58N LAT, 147-59W LONG, OCT. 15, 1964, 1800 G.C.T.		WIND SPEED 18, DIR. 06		BAR. 18		WEATHER 02		VIS. 8		CLDUF TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.92	35.02	5.03		23.40	449.0	0.	24.92	35.02	23.40	449.0	0.000			
10.	24.87	35.02	4.98		23.42	448.0	10.	24.87	35.02	23.42	448.0	0.045			
30. Δ	24.80	35.02			23.44	446.8	20.	24.84	35.02	23.43	447.4	0.090			
50. Δ	24.68	35.03			23.48	443.4	30.	24.80	35.02	23.44	446.8	0.135			
77.	23.12	35.13	5.30		24.02	393.2	50.	24.68	35.03	23.48	443.4	0.225			
102.	21.85	35.20	5.23		24.43	354.7	75.	23.26	35.12	23.97	397.6	0.331			
125.	21.15	35.26	5.01		24.67	332.7	100.	21.94	35.19	24.40	357.3	0.426			
154.	20.23	35.16	4.78		24.84	317.3	150.	20.37	35.18	24.82	319.2	0.496			
178.	19.17	35.07	4.57		25.05	298.1	200.	17.99	34.88	25.20	284.4	0.749			
192.	18.47	34.96	4.66		25.14	289.5	250.	14.30	34.37	25.66	241.1	0.381			
226.	16.19	34.59	4.55		25.41	264.8	300.	10.72	34.08	26.15	195.8	0.941			
254.	13.98	34.34	4.66		25.70	237.0	400.	7.28	34.03	26.64	147.2	1.164			
279.	12.08	34.16	4.59		25.94	214.0	500.	6.45	34.23	26.91	122.3	1.300			
304.	10.48	34.07	4.24		26.16	192.6	600.	5.77	34.36	27.10	105.0	1.415			
405.	7.21	34.04	2.77		26.66	145.7	700.	5.26	34.44	27.22	94.0	1.516			
507.	6.44	34.25	0.99		26.92	121.0	800.	4.87	34.49	27.30	66.7	1.607			
608.	5.72	34.37	0.66		27.11	103.9	1000.	4.15	34.53	27.42	76.0	1.772			
810.	4.84	34.49	0.72		27.31	86.1	1200.	3.58	34.56	27.50	69.1	1.920			
1010.	4.12	34.53	0.90		27.42	76.2	1500.	2.93	34.59	27.60	59.9	2.116			
1210.	3.55	34.56	1.14		27.50	68.8									
1512.	2.80	34.59	1.54		27.60	59.6									

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 9, STATION 33, 20-29N LAT, 147-59W LONG, OCT. 16, 1964, 0300 G.C.T.													
DRY BULB 24.4		WET BULB 22.2		WIND SPEED 22, DIR. 08		BAR. 17		WEATHER 03		VIS. 6		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	UXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	24.50	35.03	4.94		23.54	436.3	0.	24.50	35.03	23.54	436.2	0.000	
10.	24.54	35.02	4.94		23.52	438.5	10.	24.54	35.02	23.52	438.5	0.044	
30.	24.48	35.03			23.54	436.9	20.	24.53	35.02	23.52	438.6	0.088	
50.	24.26	35.07			23.64	428.5	30.	24.48	35.03	23.54	436.9	0.132	
75.	23.90	35.09			23.76	417.8	50.	24.26	35.07	23.64	428.5	0.219	
94.	22.96	35.13	5.22		24.06	389.5	75.	23.90	35.09	23.76	417.8	0.326	
117.	21.74	35.09	5.23		24.38	360.2	100.	22.63	35.12	24.15	381.4	0.427	
142.	20.77	35.15	4.94		24.69	331.4	150.	20.58	35.17	24.76	325.2	0.605	
164.	20.09	35.15	4.86		24.87	314.8	200.	17.18	34.71	25.26	278.0	0.757	
178.	19.05	34.97	4.43		25.00	302.4	250.	12.77	34.73	25.88	221.3	0.883	
210.	16.26	34.59	4.34		25.39	265.9	300.	10.37	34.12	26.22	166.7	0.986	
234.	13.92	34.32	3.65		25.70	236.7	400.	7.66	34.07	26.62	149.5	1.155	
258.	12.29	34.20	3.72		25.93	214.4	500.	6.01	34.14	26.90	123.0	1.293	
281.	11.10	34.15	4.28		26.12	197.0	600.	5.55	34.29	27.07	107.2	1.409	
375.	8.31	34.08	3.44		26.53	158.3	700.	5.12	34.39	27.20	96.0	1.512	
469.	6.28	34.10	1.86		26.83	129.4	800.	4.74	34.45	27.29	88.1	1.605	
563.	5.73	34.25	0.91		27.02	112.3	1000.	4.02	34.51	27.42	76.5	1.771	
752.	4.92	34.42	0.76		27.25	91.7	1200.	3.42	34.55	27.51	67.7	1.917	
926.	4.30	34.49	1.00		27.37	80.6							
1046.	3.86	34.52	1.87		27.44	74.1							
1252.	3.29	34.56	1.28		27.53	66.0							

CROMWELL 9, STATION 34, 22- ON LAT, 147-59W LONG, OCT. 16, 1964, 1300 G.C.T.												
DRY BULB 23.6		WET BULB 21.3		WIND SPEED 16, DIR. 10		BAR. 19		WEATHER 02		VIS.		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	UXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.79	34.96	4.80		23.40	449.6	0.	24.79	34.96	23.40	449.6	0.000
8.	24.80	34.96	4.88		23.39	450.2	10.	24.78	34.97	23.40	449.4	0.045
42.	24.14	35.05	4.95		23.66	426.2	20.	24.64	34.99	23.66	444.0	0.090
64.	23.60	35.04	5.07		23.81	412.6	30.	24.45	35.02	23.54	436.9	0.135
84.	22.66	35.20	5.17		24.20	375.8	50.	23.98	35.04	23.70	422.8	0.221
105.	21.82	35.23	5.06		24.46	351.8	75.	23.10	35.13	24.02	392.9	0.324
127.	20.98	35.23	4.86		24.69	330.5	100.	22.01	35.23	24.41	356.7	0.418
149.	20.40	35.19	4.69		24.87	319.3	150.	20.36	35.19	24.83	318.5	0.589
161.	19.91	35.15	4.68		24.92	310.1	200.	18.00	34.86	25.18	285.9	0.741
188.	18.69	34.96	4.59		25.09	294.7	250.	14.79	34.42	25.59	247.7	0.875
212.	17.28	34.76	4.53		25.28	276.7	300.	11.88	34.15	25.97	211.3	0.991
234.	15.98	34.59	4.46		25.46	260.4	400.	8.17	34.05	26.52	159.1	1.178
254.	14.49	34.38	4.50		25.62	244.5	500.	6.36	34.09	26.81	131.5	1.325
339.	10.24	34.10	3.87		26.23	187.1	600.	5.30	34.22	27.05	109.3	1.446
426.	7.53	34.05	2.90		26.62	149.8	700.	5.01	34.37	27.19	96.1	1.550
488.	6.53	34.08	2.08		26.78	134.5	800.	4.60	34.45	27.30	86.2	1.642
605.	5.26	34.23	0.82		27.06	108.4	1000.	3.89	34.52	27.43	74.4	1.805
726.	4.98	34.40	0.68		27.22	93.6	1200.	3.34	34.56	27.52	66.2	1.947
830.	4.44	34.46	0.79		27.33	83.6						
1018.	3.85	34.52	1.15		27.44	73.8						
1200.**	3.34**	34.56**			27.52	66.2						

CROMWELL 9, STATION 35, 23-31N LAT, 148- 0W LONG, OCT. 16, 1964, 2200 G.C.T.												
DRY BULB 23.3		WET BULB 20.6		WIND SPEED 18, DIR. 09		BAR. 21		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	UXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	24.74	35.06	4.94		23.49	441.0	0.	24.74	35.06	23.49	441.0	0.000
10.	24.75	35.06	4.98		23.48	441.7	10.	24.75	35.06	23.48	441.7	0.044
30. ^Δ	24.68	35.06			23.50	440.4	20.	24.72	35.06	23.49	441.3	0.089
50. ^Δ	24.62	35.07			23.53	438.8	30.	24.68	35.06	23.50	440.4	0.133
75. ^Δ	24.00	35.11			23.75	419.2	50.	24.62	35.07	23.53	438.8	0.222
100.	22.15	35.24	5.14		24.38	359.7	75.	24.00	35.11	23.75	419.2	0.330
124.	21.36	35.26	5.04		24.61	338.2	100.	22.15	35.24	24.38	359.7	0.428
150.	20.67	35.25	5.01		24.79	321.9	150.	20.67	35.25	24.79	321.9	0.600
173.	19.80	35.16	4.86		24.96	307.1	200.	17.88	34.85	25.20	284.1	0.753
188.	18.59	34.95	4.72		25.11	293.0	250.	14.96	34.49	25.61	246.2	0.886
221.	16.79	34.71	4.61		25.36	269.4	300.	11.95	34.19	25.99	209.7	1.001
247.	15.22	34.52	4.74		25.57	249.5	400.	8.63	34.05	26.45	166.1	1.191
272.	13.14	34.29	4.80		25.83	224.5	500.	6.51	34.03	26.74	138.0	1.344
297.	12.07	34.20	4.91		25.97	211.3	600.	5.21	34.12	26.98	115.8	1.473
396.	8.74	34.05	4.34		26.44	167.5	700.	4.68	34.26	27.14	100.3	1.582
496.	6.58	34.03	2.54		26.73	139.0	800.	4.49	34.39	27.27	89.3	1.678
593.	5.26	34.11	1.23		26.96	117.1	1000.	4.01	34.50	27.41	76.8	1.846
792.	4.51	34.38	0.77		27.26	90.0	1200.	3.52	34.56	27.50	68.5	1.993
990.	4.04	34.50	1.08		27.41	77.3						
1188.	3.53	34.54	1.26		27.49	69.8						
1484.	2.84	34.58	1.67		27.59	60.7						

ΔFROM BT DATA
**EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 9, STATION 36, 25- ON LAT, 147-56W LONG, OCT. 17, 1964, 0700 G.C.T.													
ORY BULB 23.9		WET BULB 20.8		WIND SPEED 15, DIR. 11		BAR. 21		WEATHER 01		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	24.01	35.39	5.07		23.95	396.4	0.	24.01	35.39	23.95	396.4	0.000	
9.	23.99	35.39	5.07		23.96	396.1	10.	23.99	35.39	23.96	396.1	0.040	
30.	23.90	35.38			23.98	395.2	20.	23.95	35.39	23.97	395.7	0.080	
50.	23.78	35.37			24.01	393.3	30.	23.90	35.38	23.98	395.2	0.120	
75.	21.58	35.25	5.41		24.54	347.9	50.	23.78	35.37	24.01	393.3	0.199	
99.	20.83	35.30	5.30		24.79	320.5	75.	21.58	35.25	24.54	347.9	0.292	
123.	20.29	35.29	5.10		24.92	308.3	100.	20.83	35.30	24.79	319.9	0.375	
149.	19.64	35.18	5.07		25.01	300.8	150.	19.61	35.17	25.02	300.4	0.532	
172.	18.75	35.03	4.90		25.13	290.5	200.	17.26	34.78	25.30	274.2	0.676	
186.	18.11	34.92	4.86		25.20	283.6	250.	14.25	34.39	25.69	238.4	0.806	
219.	16.02	34.60	4.74		25.45	260.1	300.	11.76	34.15	26.00	209.0	0.918	
246.	14.47	34.42	4.80		25.66	241.0	400.	8.79	34.05	26.43	168.2	1.109	
271.	13.13	34.27	4.83		25.82	225.7	500.	6.63	34.03	26.72	140.1	1.264	
294.	12.00	34.17	4.93		25.96	212.1	600.	5.40	34.13	26.96	117.8	1.395	
391.	9.03	34.06	4.49		26.40	171.2	700.	4.76	34.24	27.12	102.5	1.506	
491.	6.78	34.02	2.80		26.70	142.4	800.	4.42	34.34	27.24	91.7	1.604	
587.	5.51	34.11	1.23		26.93	120.2	1000.	3.90	34.46	27.39	78.6	1.776	
783.	4.48	34.33	0.53		27.22	93.2	1200.	3.47	34.54	27.49	69.4	1.926	
977.	3.95	34.45	0.92		27.38	79.8							
1171.	3.58	34.53	1.22		27.48	71.0							
1464.	2.91	34.57	1.54		27.57	62.1							

CROMWELL 9, STATION 37, 26-32N LAT, 148- 0W LONG, OCT. 17, 1964, 1600 G.C.T.																
DRY BULB 22.6		WET BULB 20.2		WIND SPEED 08, DIR. 15		BAR. 19		WEATHER 02		VIS.		CLOUD TYPE		COVER		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.				
0.	24.05	35.44	5.15		23.98	393.9	0.	24.05	35.44	23.98	393.9	0.000				
11.	24.09	35.44	5.20		23.97	395.4	10.	24.09	35.44	23.97	395.4	0.040				
30. _Δ	24.06	35.44			23.98	395.4	20.	24.08	35.44	23.97	395.6	0.080				
50. _Δ	24.05	35.44			23.98	395.9	30.	24.06	35.44	23.98	395.4	0.119				
75. _Δ	21.60	35.30			24.58	339.8	50.	24.05	35.44	23.98	395.9	0.199				
102.	20.59	35.19	5.55		24.77	322.4	75.	21.60	35.30	24.58	339.8	0.292				
127.	19.53	35.08	5.44		24.96	304.5	100.	20.64	35.20	24.76	323.0	0.375				
153.	17.78	34.82	5.21		25.21	282.0	150.	17.98	34.85	25.18	284.5	0.528				
178.	16.75	34.70	4.98		25.36	267.9	200.	15.20	34.50	25.56	248.9	0.663				
193.	15.63	34.55	5.05		25.50	254.5	250.	13.04	34.30	25.86	221.6	0.781				
228.	13.85	34.38	4.86		25.76	230.8	300.	11.41	34.19	26.09	200.2	0.888				
255.	12.88	34.28	5.03		25.88	219.7	400.	8.96	34.06	26.41	170.0	1.074				
280.	12.02	34.22	5.10		26.00	208.5	500.	7.00	34.01	26.66	146.4	1.234				
305.	11.26	34.18	6.11		26.11	198.2	600.	5.49	34.07	26.91	122.8	1.370				
405.	8.86	34.06	4.53		26.43	168.8	700.	4.69	34.18	27.08	106.1	1.486				
507.	6.88	34.01	3.32		26.68	144.8	800.	4.30	34.29	27.21	94.2	1.587				
607.	5.40	34.08	1.56		26.92	121.3	1000.	3.73	34.43	27.39	78.6	1.762				
809.	4.28	34.30	0.57		27.22	93.3	1200.	3.35	34.51	27.48	70.0	1.912				
1012.	3.71	34.44	0.74		27.39	78.0										
1203.	3.34	34.51	1.17		27.48	69.9										
1482.	2.79	34.57	1.65		27.58	60.8										

CROMWELL 9, STATION 38, 25- ON LAT, 151- 0W LONG, OCT. 18, 1964, 1000 G.C.T.														
ORY BULB 24.1		WET BULB 21.9		WIND SPEED 14, DIR. 20		BAR. 16		WEATHER 02		VIS.		CLOUD TYPE		COVER
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	24.24	35.35			23.86	405.8	0.	24.24	35.35	23.86	405.8	0.000		
10.	24.26	35.36			23.86	406.0	10.	24.26	35.36	23.86	406.0	0.041		
30.	24.26	35.36			23.86	406.8	20.	24.27	35.36	23.86	406.5	0.082		
52.	24.16	35.35			23.88	405.5	30.	24.26	35.36	23.86	406.8	0.123		
78.	22.03	35.29			24.45	352.1	50.	24.20	35.35	23.87	406.6	0.205		
102.	20.92	35.27			24.74	325.2	75.	22.31	35.30	24.38	358.9	0.301		
127.	19.99	35.17			24.91	309.5	100.	20.99	35.27	24.72	326.8	0.387		
153.	19.35	35.11			25.03	298.8	150.	19.42	35.12	25.02	249.9	0.545		
180.	18.34	34.96			25.18	286.0	200.	17.35	34.80	25.30	274.9	0.690		
193.	17.79	34.87			25.24	279.9	250.	13.80	34.32	25.73	234.4	0.819		
226.	15.46	34.53			25.53	253.3	300.	11.14	34.13	26.09	199.8	0.928		
253.	13.59	34.30			25.75	232.1	400.	8.60	34.06	26.47	164.5	1.112		
278.	11.91	34.14			25.96	212.3	500.	6.46	34.00	26.73	139.6	1.265		
303.	11.06	34.13			26.11	198.3	600.	5.39	34.13	26.97	117.0	1.395		
404.	8.52	34.06			26.48	163.5	700.	4.79	34.25	27.13	101.8	1.506		
505.	6.37	34.00			26.74	138.5	800.	4.42	34.35	27.25	91.4	1.603		
603.	5.37	34.14			26.97	116.4	1000.	3.90	34.48	27.40	77.3	1.774		
803.	4.41	34.35			27.25	91.1	1200.	3.46	34.52	27.48	70.6	1.924		
1002.	3.90	34.48			27.40	77.2	1500.	2.82	34.58	27.59	60.5	2.123		
1201.	3.46	34.52			27.48	70.6	2000.	2.12	34.63	27.69	51.0	2.406		
1498.	2.82	34.58			27.59	60.5	2500.	1.77	34.66	27.74	46.3	2.654		
1994.	2.13	34.63	2.09		27.69	51.1	3000.	1.56	34.68	27.77	43.6	2.883		
2494.	1.77	34.66	2.56		27.74	46.3								
2991.	1.58	34.68	3.00		27.77	43.9								
3988.	1.50	34.70	3.63		27.79	44.2								

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 9, STATION 39, 25- ON LAT, 154- 1W LONG, OCT. 19, 1964, 0200 G.C.T.													
DRY BULB 21.1		WET BULB 19.7		WIND SPEED 28, DIR. 35		BAR. 15		WEATHER 02		VIS. 4		CLOUD TYPE 6, COVER 8	
DEPTH	TEMP.	SAL.	UXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.53	35.43	5.36		23.83	408.3	0.	24.53	35.43	23.83	408.3	0.000	
10.	24.52	35.44	5.37		23.84	407.7	10.	24.52	35.44	23.84	407.7	0.041	
30.	24.48	35.44			23.85	407.3	20.	24.52	35.44	23.84	407.8	0.082	
50.	24.20	35.43			23.93	400.8	30.	24.48	35.44	23.85	407.3	0.123	
77.	21.43	35.28	5.56		24.61	336.8	50.	24.20	35.43	23.93	400.8	0.205	
102.	20.56	35.25	5.39		24.82	317.3	75.	21.65	35.29	24.56	341.7	0.298	
127.	19.60	35.13	5.20		24.98	302.6	100.	20.60	35.25	24.81	318.1	0.381	
153.	18.05	34.87	4.89		25.18	284.7	150.	18.23	34.90	25.16	286.8	0.534	
178.	16.96	34.73	4.89		25.34	270.4	200.	15.40	34.55	25.56	249.7	0.669	
193.	15.89	34.60	4.87		25.48	256.5	250.	12.43	34.31	25.99	209.0	0.784	
227.	13.65	34.40	5.21		25.82	225.3	300.	11.50	34.24	26.11	198.0	0.887	
253.	12.31	34.30	5.23		26.01	207.4	400.	9.09	34.10	26.42	169.7	1.073	
280.	11.86	34.27	5.28		26.07	201.9	500.	6.77	34.01	26.69	143.1	1.231	
305.	11.40	34.23	5.31		26.12	197.0	600.	5.25	34.07	26.93	119.9	1.363	
405.	8.96	34.09	4.87		26.43	168.2	700.	4.55	34.19	27.10	103.8	1.476	
507.	6.63	34.01	4.97		26.71	141.3	800.	4.25	34.31	27.23	92.2	1.575	
608.	5.16	34.08	1.62		26.95	118.3	1000.	3.76	34.46	27.41	76.7	1.746	
809.	4.24	34.32	0.69		27.24	91.4	1200.	3.30	34.54	27.51	67.4	1.892	
1011.	3.74	34.47	1.06		27.41	76.1	1500.	2.72	34.59	27.61	58.5	2.084	
1211.	3.28	34.54	1.48		27.51	67.0							
1521.	2.68	34.59	1.86		27.61	58.2							

CROMWELL 9, STATION 40, 25- ON LAT, 157- 0W LONG, OCT. 19, 1964, 1800 G.C.T.														
DRY BULB 23.6		WET BULB 17.7		WIND SPEED 15, DIR. 03		BAR. 21		WEATHER 01		VIS. 8		CLOUD TYPE 8,	COVER 4	
DEPTH	TEMP.	SAL.	UXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.92	35.29			23.61	429.6	0.	24.92	35.29	23.61	429.6	0.000		
10.	24.92	35.28			23.60	430.7	10.	24.92	35.28	23.60	430.8	0.043		
30.	24.94	35.28			23.59	432.9	20.	24.93	35.28	23.59	431.6	0.087		
50.	24.93	35.28			23.59	433.6	30.	24.93	35.28	23.59	432.2	0.130		
76.	22.76	35.20			24.17	379.2	50.	24.94	35.28	23.59	432.9	0.217		
100.	21.95	35.23			24.43	356.0	75.	24.95	35.28	23.59	434.2	0.327		
124.	21.32	35.27			24.63	337.4	100.	22.76	35.20	24.17	379.2	0.429		
151.	20.63	35.19			24.76	326.1	150.	21.34	35.27	24.62	338.0	0.610		
178.	19.82	35.04			24.86	316.8	200.	19.01	34.94	24.99	304.0	0.772		
222.	17.50	34.80			25.26	279.2	250.	15.86	34.62	25.51	256.0	0.913		
249.	15.93	34.63			25.50	256.9	300.	13.24	34.33	25.85	224.0	1.034		
272.	14.47	34.46			25.69	238.8	400.	9.87	34.12	26.31	180.8	1.238		
298.	13.32	34.34			25.84	225.0	500.	7.51	34.03	26.60	152.3	1.406		
399.	9.90	34.12			26.30	181.1	600.	5.65	34.05	26.87	126.4	1.547		
497.	7.58	34.03			26.59	153.2	700.	4.86	34.15	27.04	110.6	1.667		
597.	5.68	34.05			26.86	126.9	800.	4.54	34.27	27.17	98.9	1.772		
794.	4.57	34.26			27.16	99.6	1000.	3.86	34.46	27.40	77.9	1.951		
994.	3.88	34.46			27.39	78.3	1200.	3.38	34.53	27.50	68.7	2.100		
1189.	3.40	34.53			27.49	69.0	1500.	2.82	34.57	27.58	61.1	2.297		
1489.	2.84	34.57			27.58	61.4	2000.	2.11	34.63	27.69	50.8	2.582		
1996.	2.11	34.63	3.12		27.69	50.8	2500.	1.74	34.63	27.72	48.0	2.833		
2494.	1.74	34.63	2.79		27.72	48.1	3000.	1.55	34.65	27.75	45.5	3.072		
2992.	1.58	34.66	3.18		27.75	45.4								
3809.	1.50	34.70	3.66		27.79	43.7								

TEMPERATURE ERROR TERM AT 700. METERS IS 0.13

CROMWELL 9, STATION 41, 23-29N LAT, 157- 0W LONG, OCT. 20, 1964, 0500 G.C.T.														
DRY BULB 23.3		WET BULB 18.9		WIND SPEED 16, DIR. 04		BAR. 20		WEATHER 01		VIS. 8		CLOUD TYPE 8,	COVER 1	
DEPTH	TEMP.	SAL.	UXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	25.17	35.09			23.38	451.3	0.	25.17	35.09	23.38	451.3	0.000		
10.	25.17	35.09			23.38	451.7	10.	25.17	35.09	23.38	451.7	0.045		
30.	25.10	35.09			23.40	450.4	20.	25.15	35.09	23.39	451.4	0.091		
50.	24.94	35.09			23.45	446.6	30.	25.10	35.09	23.40	450.4	0.136		
73.	23.64	35.13			23.87	407.5	50.	24.94	35.09	23.45	446.6	0.227		
97.	22.65	35.24			24.24	373.2	75.	23.55	35.14	23.90	404.5	0.334		
120.	21.58	35.24			24.54	345.3	100.	22.50	35.24	24.28	369.0	0.431		
143.	20.96	35.25			24.71	329.1	150.	20.76	35.22	24.75	326.2	0.607		
168.	19.96	35.10			24.87	315.3	200.	17.83	34.85	25.22	282.4	0.760		
182.	18.89	34.98			25.05	297.9	250.	15.15	34.53	25.59	247.5	0.894		
214.	17.11	34.76			25.32	272.8	300.	12.82	34.31	25.91	217.7	1.011		
238.	15.83	34.60			25.50	256.6	400.	9.40	34.07	26.35	176.2	1.210		
262.	14.49	34.46			25.69	238.9	500.	7.13	34.04	26.67	146.0	1.372		
286.	13.42	34.36			25.83	225.2	600.	5.46	34.10	26.93	120.7	1.507		
379.	9.96	34.10			26.28	183.2	700.	4.70	34.21	27.10	104.0	1.620		
470.	7.81	34.04			26.57	155.4	800.	4.34	34.33	27.24	91.9	1.720		
562.	5.90	34.06			26.84	128.6	1000.	3.83	34.48	27.41	76.5	1.890		
745.	4.56	34.27			27.17	98.3	1200.	3.33	34.56	27.52	66.4	2.035		
930.	3.99	34.44			27.36	80.6								
1116.	3.58	34.52			27.47	71.3								
1398.	2.86	34.57			27.58	61.1								

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 9, STATION 42, 22- ON LAT, 157- 1W LONG, OCT. 20, 1964, 1500 G.C.T.												
DRY BULB 23.4	WET BULB 20.4		WIND SPEED 12, DIR. 04	BAR. 18	WEATHER 01	VIS. 8	CLOUD TYPE	COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	ODYN.DPTH.
0.	25.27	35.05			23.32	457.1	0.	25.27	35.05	23.32	457.1	0.000
9.	25.33	35.05			23.30	459.2	10.	25.33	35.05	23.30	459.3	0.046
50.	25.33	35.05			23.30	460.8	20.	25.35	35.05	23.29	460.3	0.092
75.	25.33	35.05			23.30	461.8	30.	25.36	35.05	23.29	460.8	0.139
95.	23.62	35.07			23.83	412.2	50.	25.33	35.05	23.30	460.8	0.232
117.	22.58	35.12			24.17	380.7	75.	25.33	35.05	23.30	461.8	0.348
140.	21.40	35.17			24.53	346.3	100.	23.35	35.08	23.91	404.0	0.457
163.	20.57	35.13			24.73	328.4	150.	21.04	35.16	24.62	337.9	0.644
178.	19.80	35.07			24.89	313.8	200.	18.81	34.96	25.05	298.4	0.804
210.	18.31	34.89			25.13	291.4	250.	15.49	34.55	25.54	253.1	0.943
234.	16.63	34.69			25.38	267.6	300.	12.02	34.20	25.99	210.1	1.060
258.	14.89	34.48			25.61	245.7	400.	9.29	34.14	26.42	169.6	1.252
281.	12.99	34.28			25.86	222.5	500.	7.34	34.17	26.74	139.7	1.408
375.	9.89	34.15			26.33	178.3	600.	5.96	34.24	26.98	116.3	1.537
469.	7.91	34.15			26.64	148.7	700.	5.21	34.33	27.14	101.1	1.647
563.	6.35	34.21			26.91	123.5	800.	4.81	34.41	27.25	91.4	1.744
752.	4.99	34.38			27.21	95.5	1000.	4.24	34.49	27.38	80.3	1.918
942.	4.42	34.48			27.35	83.0	1200.	3.66	34.54	27.48	71.6	2.072
1130.	3.84	34.51			27.43	75.3						
1418.	3.07	34.56			27.55	64.5						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.17

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 10

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL 10, STATION		1, 20-36N LAT, 157-15W LONG, NOV. 5, 1964, 0900 G.C.T.				5, 1964, 0900 G.C.T.						
DRY BULB 25.2		WET BULB 22.1		WIND SPEED 24, DIR. 05		BAR. 20		WEATHER 02		VIS. 8 CLOUD TYPE , COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	QYN.DPTH.
0.	25.66	34.92			23.10	477.9	0.	25.66	34.92	23.10	477.9	0.000
10.	25.67	34.92			23.10	478.6	10.	25.67	34.92	23.10	478.6	0.048
51.	25.41	35.04			23.27	463.9	20.	25.64	34.95	23.13	476.2	0.096
77.	25.12	35.05			23.36	455.8	30.	25.59	34.97	23.16	473.1	0.144
103.	23.33	35.10			23.93	402.2	50.	25.42	35.04	23.26	464.4	0.239
128.	21.64	35.11			24.42	356.5	75.	25.17	35.05	23.35	457.2	0.355
153.	20.42	35.07			24.72	328.6	100.	23.57	35.09	23.86	409.3	0.464
178.	19.39	34.98			24.92	310.0	150.	20.55	35.08	24.69	331.2	0.650
194.	19.04	34.94			24.98	304.9	200.	18.64	34.90	25.05	298.2	0.809
228.	16.42	34.68			25.42	263.5	250.	15.21	34.56	25.61	246.1	0.946
253.	15.06*	34.55			25.63	244.1	300.	12.00	34.27	26.04	204.9	1.060
280.	13.63	34.41			25.83	225.6	400.	8.26	34.13	26.57	154.3	1.241
306.	11.50	34.23			26.10	198.9	500.	6.28	34.21	26.91	121.7	1.380
406.	8.19	34.14			26.59	152.6	600.	5.58	34.33	27.09	105.3	1.495
508.	6.17	34.22			26.94	119.6	700.	5.08	34.41	27.22	94.0	1.596
604.	5.57	34.33			27.10	104.9	800.	4.66	34.47	27.31	85.5	1.687
810.	4.62	34.47			27.32	84.9	1000.	3.99	34.53	27.43	74.8	1.849
1018.	3.94	34.53			27.44	74.1	1200.	3.44	34.57	27.52	66.8	1.992
1222.	3.38	34.57			27.53	66.1	1500.	2.79	34.60	27.61	58.8	2.183
1523.	2.75	34.60			27.61	58.4						

CROMWELL 10, STATION		2, 19- ON LAT, 156-56W LONG, NOV. 5, 1964, 2000 G.C.T.				5, 1964, 2000 G.C.T.						
DRY BULB 25.8		WET BULB 21.1		WIND SPEED 03, DIR. 00		BAR. 18		WEATHER 03		VIS. 6 CLOUD TYPE 6, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.94	34.92			23.01	486.2	0.	25.94	34.92	23.01	486.2	0.000
10.	25.97	34.93			23.01	486.7	10.	25.97	34.93	23.01	486.7	0.049
100.	25.99	34.92			23.00	491.7	20.	25.99	34.93	23.01	487.6	0.098
126.	25.96	34.93			23.01	491.1	30.	26.00	34.93	23.00	488.3	0.147
152.	25.83	34.94			23.06	487.6	50.	26.02	34.93	23.00	489.6	0.246
177.	23.61	35.07			23.83	415.0	75.	26.02	34.93	23.00	490.9	0.369
191.	22.32	35.11			24.23	377.1	100.	25.99	34.92	23.00	491.7	0.493
226.	19.05	34.99			25.02	302.6	150.	25.88	34.94	23.04	489.2	0.740
252.	16.71	34.69			25.36	270.0	200.	21.48	35.11	24.47	354.9	0.953
279.	14.47	34.45			25.68	239.7	250.	16.89	34.72	25.34	272.1	1.111
302.	12.27	34.29			26.01	208.6	300.	12.46	34.30	25.98	211.1	1.233
405.	8.24	34.13			26.58	154.1	400.	8.30	34.12	26.56	155.3	1.418
506.	6.40	34.22			26.91	122.7	500.	6.46	34.21	26.89	124.1	1.559
605.	5.67	34.35			27.10	104.7	600.	5.69	34.34	27.09	105.4	1.675
810.	4.77	34.46			27.30	87.5	700.	5.18	34.42	27.21	94.6	1.776
1010.	4.21	34.52			27.40	78.1	800.	4.80	34.46	27.29	87.9	1.868
1210.	3.62	34.56			27.50	69.6	1000.	4.23	34.52	27.40	78.4	2.036
1511.	2.85	34.60			27.60	59.5	1200.	3.65	34.56	27.49	70.0	2.187
							1500.	2.88	34.60	27.60	59.8	2.384

CROMWELL 10, STATION		3, 17-29N LAT, 157- 2W LONG, NOV. 6, 1964, 0600 G.C.T.				6, 1964, 0600 G.C.T.						
DRY BULB 25.7		WET BULB 22.2		WIND SPEED 24, DIR. 08		BAR. 16		WEATHER 02		VIS. 7 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.99	33.95			22.27	557.5	0.	25.99	33.95	22.27	557.5	0.000
12.	25.97	33.95			22.27	557.4	10.	25.97	33.95	22.27	557.4	0.056
30.Δ	25.97	33.95			22.27	558.1	20.	25.97	33.95	22.27	557.6	0.112
50.Δ	25.97	33.95			22.27	558.9	30.	25.97	33.95	22.27	558.1	0.168
73.	23.81	34.83			23.59	433.9	50.	25.97	33.95	22.27	558.9	0.281
99.	22.39	35.01			24.14	382.8	75.	23.68	34.86	23.65	428.1	0.405
123.	21.35	35.12			24.51	348.0	100.	22.35	35.02	24.15	381.1	0.507
149.	19.98	35.07			24.84	317.3	150.	19.93	35.07	24.85	316.3	0.683
173.	18.34	34.88			25.11	291.6	200.	15.99	34.53	25.41	263.7	0.829
187.	16.86	34.66			25.31	273.5	250.	11.04	34.20	26.16	191.8	0.944
220.	14.60	34.40			25.62	244.4	300.	9.69	34.28	26.47	163.5	1.034
247.	11.20	34.20			26.14	194.3	400.	7.66	34.29	26.79	133.7	1.183
272.	10.39	34.22			26.30	179.4	500.	6.18	34.29	26.99	114.5	1.309
296.	9.78	34.28			26.45	165.3	600.	5.91	34.42	27.13	102.7	1.418
393.	7.80	34.29			26.77	135.5	700.	5.40	34.47	27.23	93.5	1.518
492.	6.22	34.28			26.98	115.6	800.	4.87	34.49	27.31	86.4	1.609
575.	6.03	34.40			27.10	105.3	1000.	4.12	34.53	27.42	76.3	1.773
766.	5.02	34.48			27.28	88.6	1200.	3.52	34.56	27.50	68.6	1.920
959.	4.25	34.52			27.40	78.1						
1152.	3.69	34.55			27.48	70.7						
1440.	2.93	34.58			27.58	61.5						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

ΔFROM BT DATA
*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL DRY BULB 24.2	10, STATION WET BULB 22.8	4, 14-32 LAT, 156-59W LONG, NOV.				6, 1964, 1600 G.C.T.	BAR. 14	WEATHER 02	VIS. 7	CLOUD TYPE	, COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	25.91	34.00			22.33	551.5	0.	25.91	34.00	22.33	551.5	0.000
10. ^Δ	25.93	34.00			22.32	552.5	10.	25.93	34.00	22.32	552.5	0.056
20. ^Δ	25.93	34.00			22.32	552.9	20.	25.93	34.00	22.32	552.9	0.111
30.	25.93	34.00			22.32	553.3	30.	25.93	34.00	22.32	553.3	0.167
49.	25.29	34.78			23.11	479.0	50.	25.20	34.80	23.15	475.3	0.271
74.	22.79	34.96			23.98	396.3	75.	22.71	34.97	24.02	393.4	0.380
97.	21.18	35.16			24.59	339.7	100.	20.99	35.16	24.63	335.2	0.472
121.	19.67	35.03			24.89	311.4	150.	17.44	34.72	25.21	281.2	0.627
146.	17.84	34.77			25.15	286.8	200.	12.85	34.30	25.90	216.4	0.752
170.	15.36	34.49			25.52	252.4	250.	10.23	34.30	26.38	170.8	0.850
185.	13.91	34.34			25.72	231.7	300.	9.15	34.30	26.56	153.9	0.932
217.	11.91	34.31			26.09	199.3	400.	7.95	34.46	26.88	125.5	1.073
243.	10.64	34.33			26.34	174.9	500.	6.66	34.48	27.08	106.8	1.190
269.	9.41	34.24			26.47	162.8	600.	6.04	34.49	27.17	99.2	1.294
292.	9.25	34.20			26.53	156.6	700.	5.25	34.49	27.27	89.8	1.390
390.	7.96	34.45			26.87	126.0	800.	4.76	34.51	27.33	83.9	1.478
489.	6.92	34.44			27.04	110.3	1000.	4.02	34.55	27.45	73.4	1.637
493.	6.78	34.48			27.06	108.4						
586.	6.20	34.49			27.15	101.1						
623.	5.78	34.44			27.20	96.0						
758.	5.00	34.50			27.30	86.8						
967.	4.08	34.54			27.43	74.6						
1004.**	4.02**	34.55**			27.45	73.4						

CROMWELL DRY BULB 26.4	10, STATION WET BULB 22.8	5, 14-29N LAT, 156-59W LONG, NOV.				7, 1964, 0100 G.C.T.	BAR. 12	WEATHER 03	VIS. 9	CLOUD TYPE 8,	COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	25.84	34.08			22.41	543.7	0.	25.84	34.08	22.41	543.7	0.000
8.	25.83	34.08			22.41	543.7	10.	25.83	34.09	22.42	543.3	0.055
30. ^Δ	25.80	34.18			22.50	536.5	20.	25.82	34.13	22.45	540.4	0.109
50. ^Δ	25.74	34.25			22.57	530.5	30.	25.80	34.18	22.50	536.5	0.164
70.	23.28	34.83			23.74	419.0	50.	25.74	34.25	22.57	530.5	0.271
93.	22.26	35.04			24.20	376.9	75.	23.01	34.91	23.88	406.1	0.389
116.	20.40	34.96			24.64	334.7	100.	21.77	35.04	24.33	364.3	0.486
139.	17.89	34.78			25.15	287.0	150.	17.19	34.71	25.26	276.4	0.647
164.	16.44	34.64			25.39	264.8	200.	13.63	34.55	25.94	213.2	0.771
196.	14.04	34.61			25.90	216.9	250.	10.53	34.22	26.27	181.6	0.870
211.	12.51	34.37			26.02	204.9	300.	9.44	34.36	26.57	153.7	0.955
277.	9.99	34.30			26.43	166.9	400.	7.90	34.48	26.90	123.4	1.095
341.	8.70	34.48			26.78	134.1	500.	6.81	34.47	27.05	109.9	1.213
407.	7.82	34.47			26.91	122.7	600.	5.97	34.48	27.17	98.8	1.318
539.	6.45	34.47			27.10	105.3	700.	5.34	34.50	27.26	90.1	1.413
671.	5.51	34.50			27.24	92.3	800.	4.81	34.52	27.34	83.5	1.501
805.	4.79	34.52			27.34	83.2	1000.	4.08	34.55	27.44	74.3	1.661
1013.	4.05	34.55			27.45	73.9						

TEMPERATURE ERROR TERM AT 250. METERS IS 0.23
 SALINITY ERROR TERM AT 250. METERS IS 0.05

CROMWELL DRY BULB 26.0	10, STATION WET BULB 23.1	6, 13- ON LAT, 157- 0W LONG, NOV.				7, 1964, 0900 G.C.T.	BAR. 13	WEATHER 02	VIS.	CLOUD TYPE	, COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	26.67	33.92			22.03	580.0	0.	26.67	33.92	22.03	580.0	0.000
10.	26.63	33.92			22.04	579.2	10.	26.63	33.92	22.04	579.2	0.058
30. ^Δ	26.62	33.92			22.05	579.7	20.	26.63	33.91	22.04	580.5	0.117
50. ^Δ	26.40	34.10			22.25	560.9	30.	26.62	33.92	22.05	579.7	0.175
71.	22.86	34.86			23.89	405.3	50.	26.40	34.10	22.25	560.9	0.290
94.	21.18	35.07			24.52	346.1	75.	22.49	34.93	24.05	390.2	0.410
118.	19.35	34.97			24.93	307.7	100.	20.82	35.08	24.62	336.2	0.501
140.	15.97	34.53			25.41	261.7	150.	14.50	34.39	25.63	241.1	0.647
164.	12.76	34.26			25.89	216.5	200.	10.59	34.26	26.29	178.7	0.753
178.	11.68	34.22			26.06	199.8	250.	9.35	34.39	26.61	149.0	0.835
210.	10.27	34.29			26.37	170.9	300.	9.09	34.51	26.74	137.0	0.907
233.	9.68	34.35			26.52	157.2	400.	8.29	34.57	26.91	122.4	1.038
257.	9.25	34.41			26.64	146.3	500.	7.30	34.53	27.03	112.0	1.157
282.	9.18	34.48			26.70	140.5	600.	6.39	34.52	27.14	101.9	1.265
375.	8.52	34.57			26.88	125.3	700.	5.61	34.52	27.24	92.9	1.363
470.	7.59	34.54			26.99	115.2	800.	5.01	34.53	27.32	85.3	1.453
563.	6.71	34.52			27.10	105.6	1000.	4.17	34.57	27.45	74.0	1.614
752.	5.27	34.52			27.28	88.7	1200.	3.49	34.59	27.54	65.5	1.756
939.	4.41	34.56			27.41	76.9						
1128.	3.72	34.58			27.50	68.7						
1415.	2.94	34.61			27.60	59.2						

ΔFROM BT DATA
 **EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA		INTERPOLATED DATA							
CROMWELL DRY BULB 25.6		10, STATION WET BULB 23.8		7, 11-30N LAT, 157- WIND SPEED 23, DIR. 06		OW LONG, NOV. 7, 1964, 1800 G.C.T. BAR. 12		WEATHER 14		VIS. 7		CLOUD TYPE 1, COVER 7	
DEPTH	TEMP.	SAL.	DX.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	26.43	33.69			21.93	589.4	0.	26.43	33.69	21.93	589.4	0.000	
11.	26.44	33.69			21.93	590.1	10.	26.44	33.69	21.93	590.1	0.059	
20.	26.43	33.69			21.93	590.1	20.	26.43	33.69	21.93	590.1	0.119	
30.	26.43	33.69			21.93	590.5	30.	26.43	33.69	21.93	590.5	0.178	
51.	20.53	34.56			24.31	364.6	50.	20.88	34.52	24.38	376.8	0.276	
75.	15.88	34.46			25.38	262.9	75.	15.88	34.46	25.38	262.9	0.356	
101.	12.95	34.33			25.90	213.4	100.	13.03	34.33	25.89	214.7	0.416	
126.	11.49	34.45			26.28	178.3	150.	11.28	34.61	26.44	163.4	0.512	
152.	11.28	34.62			26.45	162.7	200.	10.61	34.67	26.61	148.5	0.590	
176.	10.91	34.67			26.55	153.1	250.	10.33	34.70	26.68	142.6	0.664	
190.	10.70	34.66			26.58	150.5	300.	9.36	34.63	26.79	132.7	0.733	
225.	10.46	34.70			26.66	144.2	400.	8.11	34.57	26.94	119.6	0.860	
250.	10.33	34.70			26.68	142.6	500.	7.04	34.55	27.08	107.1	0.975	
276.	9.92	34.67			26.73	138.5	600.	6.29	34.53	27.16	99.6	1.079	
300.	9.36	34.63			26.79	132.7	700.	5.65	34.54	27.25	92.0	1.176	
400.	8.11	34.57			26.94	119.6	800.	5.10	34.55	27.33	84.9	1.265	
499.	7.05	34.55			27.08	107.2	1000.	4.24	34.57	27.44	74.6	1.427	
599.	6.30	34.53			27.16	99.7	1200.	3.59	34.59	27.52	66.9	1.570	
797.	5.12	34.55			27.33	85.1							
996.	4.25	34.57			27.44	74.7							
1194.	3.65	34.59			27.52	67.6							
1493.	2.84	34.62			27.62	57.8							

CROMWELL DRY BULB 24.2	10, STATION WET BULB 22.9	7A, 10- WIND SPEED 16, DIR. 36	7N LAT, 153-56W LONG, NOV. 8, 1964, 1500 G.C.T.		BAR. 10	WEATHER 02	VIS.	CLOUD TYPE , COVER					
DEPTH	TEMP.	SAL.	DX.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	27.04	34.01	4.59	0.29	21.98	584.8	0.	27.04	34.01	21.98	584.8	0.000	
10.	27.06	34.01	4.58	0.31	21.98	585.8	10.	27.06	34.01	21.98	585.8	0.059	
20.	25.66	34.92			23.10	478.7	20.	25.66	34.92	23.10	478.7	0.113	
30.	25.66	34.92			23.10	479.1	30.	25.66	34.92	23.10	479.1	0.161	
50.	22.59	34.85	4.76	0.33	23.96	397.9	50.	22.59	34.85	23.96	397.9	0.249	
75.	17.14	34.61	3.88	0.73	25.20	280.0	75.	17.14	34.61	25.20	280.0	0.335	
101.	12.90	34.44	1.91	1.58	26.00	204.4	100.	13.02	34.44	25.98	206.5	0.396	
126.	11.98	34.68	0.30	1.91	26.36	170.2	150.	11.38	34.70	26.49	158.3	0.488	
152.	11.34	34.70	0.48	2.13	26.50	157.9	200.	10.73	34.72	26.63	146.8	0.565	
176.	11.01	34.72			26.57	151.1	250.	10.15	34.71	26.72	138.6	0.637	
191.	10.91	34.72	0.46	2.55	26.59	149.7	300.	9.81	34.82	26.86	126.5	0.703	
200.	10.73	34.72	0.44	2.16	26.63	146.8	400.	9.02	34.76	26.94	119.9	0.828	
225.	10.37	34.72	0.60	2.73	26.69	141.2	500.	8.06	34.61	26.98	117.3	0.948	
252.	10.13	34.71	0.47	2.13	26.72	138.5	600.	7.12	34.57	27.08	108.3	1.061	
272.	9.93	34.70	0.61	2.09	26.75	136.3	700.	6.24	34.55	27.19	98.7	1.166	
273.	9.93	34.71	0.44	2.34	26.76	135.6	800.	5.58	34.55	27.27	91.4	1.262	
420.	8.79	34.66	0.55		26.91	123.8	1000.	4.62	34.56	27.39	80.4	1.436	
564.	7.46	34.58	0.38	3.32	27.04	111.9	1200.	3.92	34.58	27.48	71.9	1.590	
710.	6.16	34.55	0.73	2.69	27.20	97.8	1500.	3.14	34.61	27.58	62.4	1.795	
931.	4.91	34.55	1.01	2.85	27.35	83.9	2000.	2.19	34.65	27.70	50.5	2.082	
1295.	3.66	34.59	1.53	2.63	27.52	68.6	2500.	1.82	34.67	27.74	46.1	2.328	
1659.	2.80	34.62	1.80	2.50	27.62	58.3							
2023.	2.16	34.65	2.24	2.25	27.70	50.1							
2742.	1.83	34.68	2.69	2.74	27.75	46.5							

SALINITY ERROR TERM AT 300. METERS IS 0.07
SALINITY ERROR TERM AT 400. METERS IS 0.06

CROMWELL		10, STATION		8, 11-28N LAT, 153-59W LONG, NOV. 9, 1964, 0000 G.C.T.													
DRY BULB 27.0		WET BULB 23.5		WIND SPEED 20, DIR. 08		BAR. 10		WEATHER 01		VIS. 7		CLOUD TYPE 1, COVER 7					
DEPTH	TEMP.	SAL.	DX.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.					
0.	26.55	34.02	4.41		22.14	569.2	0.	26.55	34.02	22.14	569.2	0.000					
11.	26.59	34.02	4.75		22.13	570.9	10.	26.59	34.02	22.13	570.8	0.057					
20.Δ	26.58	34.02			22.14	570.9	20.	26.58	34.02	22.14	570.9	0.115					
30.Δ	26.52	34.07			22.19	565.9	30.	26.52	34.07	22.19	565.9	0.172					
51.	21.88	34.61	5.10		23.98	396.2	50.	22.15	34.58	23.88	405.3	0.270					
78.	18.89	34.81	4.49		24.92	306.7	75.	19.16	34.82	24.86	312.8	0.360					
100.	15.72	34.52	3.76		25.46	255.8	100.	15.72	34.82	25.46	255.8	0.432					
124.	12.68	34.49	1.35		26.08	197.1	150.	11.61	34.64	26.40	167.0	0.539					
150.	11.61	34.64	0.53		26.40	167.0	200.	10.68	34.71	26.63	146.7	0.618					
176.	10.97	34.68	0.42		26.55	153.4	250.	10.14	34.71	26.72	138.6	0.690					
191.	10.77	34.70	0.31		26.60	148.8	300.	9.65	34.69	26.79	133.1	0.758					
222.	10.46	34.72	0.31		26.67	142.7	400.	8.69	34.64	26.90	123.4	0.888					
250.	10.14	34.71	0.42		26.72	138.6	500.	7.68	34.59	27.02	113.4	1.007					
276.	9.83	34.70	0.44		26.77	134.7	600.	6.85	34.56	27.11	105.2	1.117					
299.	9.66	34.69	0.44		26.79	133.2	700.	6.09	34.55	27.21	96.8	1.219					
398.	8.71	34.64	0.40		26.90	123.6	800.	5.46	34.55	27.29	89.5	1.314					
499.	7.69	34.59	0.43		27.02	113.5	1000.	4.49	34.56	27.41	78.5	1.484					
598.	6.87	34.56	0.66		27.11	105.4	1200.	3.79	34.58	27.49	70.4	1.634					
774.	5.60	34.55	0.95		27.27	91.1											
924.	4.90	34.56	0.89		27.36	82.9											
1310.	3.52	34.59	1.55		27.53	67.0											

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA					
CROMWELL DRY BULB 25.0	10, STATION WET BULB 23.4	9, 13- ON LAT, 153-57W LONG, NOV. WIND SPEED 22, DIR. 07	9, 1964, 1000 G.C.T. BAR. 15	WEATHER 01	VIS.	CLOUD TYPE		COVER					
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
0.	26.43	33.94	4.67	0.33	22.12	571.4	0.	26.43	33.94	22.12	571.4	0.000	
11.	26.46	33.94	4.70	0.33	22.11	572.7	10.	26.46	33.94	22.11	572.7	0.058	
30.	26.44	34.00			22.16	568.5	20.	26.49	33.93	22.10	574.4	0.115	
51.	25.81	34.63	5.18	0.31	22.83	505.2	30.	26.44	34.00	22.16	568.5	0.173	
78.	22.34	34.87	4.81		24.04	390.7	50.	25.87	34.60	22.79	509.2	0.282	
102.	20.13	35.01	4.65	0.42	24.75	323.7	75.	22.77	34.86	23.91	403.0	0.396	
128.	16.85	34.65	4.08	0.61	25.30	272.2	100.	20.31	35.01	24.70	328.4	0.489	
153.	12.94	34.30	2.67	1.82	25.88	216.8	150.	13.36	34.33	25.82	222.8	0.627	
178.	11.60	34.48	1.04	2.53	26.28	179.3	200.	10.98	34.54	26.44	164.4	0.725	
191.	11.21	34.52	1.01	2.48	26.38	169.7	250.	10.17	34.60	26.63	147.3	0.804	
226.	10.47	34.58	0.71	2.75	26.56	153.2	300.	9.54	34.60	26.74	137.8	0.875	
253.	10.14	34.60	0.54	2.45	26.64	146.8	400.	8.61	34.60	26.89	125.0	1.008	
281.	9.83	34.60	0.46	2.74	26.69	142.2	500.	7.56	34.57	27.02	112.9	1.128	
305.	9.46	34.60	0.35		26.75	136.7	600.	6.79	34.54	27.11	105.6	1.239	
405.	8.58	34.60	0.35	2.76	26.89	124.6	700.	6.07	34.53	27.20	97.6	1.341	
506.	7.50	34.57	0.60		27.03	112.3	800.	5.42	34.54	27.28	89.9	1.436	
607.	6.74	34.54	0.58	2.56	27.11	105.2	1000.	4.48	34.56	27.41	78.5	1.606	
807.	5.38	34.54	0.69	3.23	27.29	89.3	1200.	3.83	34.59	27.50	70.1	1.757	
1009.	4.45	34.56	1.25		27.41	78.1	1500.	3.03	34.61	27.59	60.9	1.956	
1209.	3.81	34.59	1.41	3.05	27.50	69.7							
1510.	3.01	34.61	1.78	2.61	27.59	60.7							

CROMWELL DRY BULB 25.7	10, STATION WET BULB 23.5	10, 14-28N LAT, 153-57W LONG, NOV. WIND SPEED 26, DIR. 07	9, 1964, 1900 G.C.T. BAR. 14	WEATHER 02	VIS. 8	CLOUD TYPE R,		COVER 6					
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
0.	26.02	33.91	4.87	0.38	22.23	561.3	0.	26.02	33.91	22.23	561.3	0.000	
10.	25.99	33.90	4.85	0.34	22.23	561.5	10.	25.99	33.90	22.23	561.5	0.057	
30.	25.99	33.90			22.23	562.3	20.	25.98	33.90	22.23	561.9	0.113	
50.	25.99	33.90			22.23	563.1	30.	25.99	33.90	22.23	562.3	0.170	
74.	20.77	34.48	4.84	0.67	24.18	377.4	50.	25.99	33.90	22.23	563.1	0.283	
98.	16.33	34.41	2.95	1.51	25.24	277.1	75.	20.56	34.48	24.24	371.7	0.401	
124.	13.59	34.31	3.50	2.18	25.76	227.9	100.	16.06	34.40	25.29	271.7	0.482	
149.	12.29	34.24	3.26	1.60	25.96	208.8	150.	12.26	34.25	25.97	207.7	0.603	
171.	11.71	34.42	1.40	2.20	26.21	185.5	200.	10.81	34.47	26.42	166.6	0.697	
186.	11.17	34.45	1.27	2.27	26.34	174.0	250.	9.74	34.48	26.61	148.7	0.776	
218.	10.41	34.48	1.08	2.35	26.50	159.4	300.	8.98	34.45	26.71	139.9	0.849	
243.	9.81	34.47	1.01	2.53	26.59	150.7	400.	7.65	34.44	26.91	122.0	0.981	
268.	9.58	34.51		2.68	26.66	144.5	500.	6.81	34.48	27.06	108.8	1.098	
292.	9.12	34.46	0.94	2.55	26.70	141.3	600.	6.14	34.49	27.15	100.7	1.204	
387.	7.79	34.44	0.70		26.89	124.2	700.	5.54	34.51	27.25	92.3	1.301	
482.	6.94	34.48	0.63	3.02	27.04	110.5	800.	5.03	34.53	27.32	85.2	1.391	
576.	6.29	34.48	0.70	3.27	27.13	102.9	1000.	4.20	34.55	27.43	75.8	1.554	
766.	5.19	34.53	0.80	3.20	27.30	87.1	1200.	3.52	34.57	27.52	67.4	1.699	
956.	4.36	34.54	1.02	3.07	27.40	77.9							
1135.	3.74	34.57	1.19	3.20	27.49	69.7							
1356.	3.08	34.59	1.58	2.92	27.57	62.0							

CROMWELL DRY BULB 25.5	10, STATION WET BULB 22.7	11, 16- ON LAT, 154-4W LONG, NOV. WIND SPEED 28, DIR. 07	10, 1964, 0500 G.C.T. BAR. 16	WEATHER 00	VIS. 6	CLOUD TYPE R,		COVER 7					
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
0.	25.51	34.39	5.00	0.25	22.75	511.6	0.	25.51	34.39	22.75	511.6	0.000	
10.	25.50	34.38	5.02		22.74	512.5	10.	25.50	34.38	22.74	512.5	0.052	
30.	25.46	34.38			22.75	512.1	20.	25.48	34.38	22.75	512.4	0.133	
50.	25.42	34.38			22.77	511.7	30.	25.46	34.38	22.75	512.1	0.195	
77.	23.32	34.88	5.28	0.24	23.77	416.8	50.	25.42	34.38	22.77	511.7	0.298	
101.	21.99	35.06	5.10	0.27	24.29	368.5	75.	23.50	34.84	23.69	424.8	0.376	
125.	20.94	35.14	5.05	0.32	24.64	335.9	100.	22.04	35.06	24.27	370.0	0.476	
150.	18.68	34.92	4.55	0.40	25.06	296.1	150.	18.68	34.92	25.06	296.1	0.644	
174.	15.04	34.42	3.49	1.48	25.54	250.8	200.	12.69	34.27	25.91	215.1	0.773	
190.	13.58	34.29	4.21	0.71	25.74	230.9	250.	11.16	34.56	26.42	167.3	0.869	
230.	11.22	34.35	2.48	2.02	26.25	183.1	300.	10.77	34.70	26.60	151.2	0.949	
250.	11.16	34.56	1.26	2.17	26.42	167.3	400.	9.45	34.62	26.77	137.0	1.095	
274.	10.80	34.62	1.63	2.11	26.54	157.1	500.	8.47	34.58	26.89	126.2	1.228	
299.	10.78	34.70	0.28	2.59	26.60	151.4	600.	7.39	34.55	27.03	113.7	1.349	
398.	9.47	34.62	0.38	2.18	26.76	137.2	700.	6.51	34.53	27.14	104.1	1.459	
498.	8.49	34.53	0.33		26.89	126.4	800.	5.80	34.52	27.22	96.3	1.560	
598.	7.41	34.55	0.45		27.03	113.9	1000.	4.79	34.54	27.36	83.8	1.742	
798.	5.81	34.52	0.67	2.80	27.22	96.4	1200.	4.02	34.56	27.46	74.4	1.902	
997.	4.80	34.54	0.90	2.44	27.36	83.9							
1196.	4.06	34.56	1.19	3.17	27.45	74.9							
1496.	3.22	34.59	1.57	3.20	27.56	64.6							

ΔFROM ST DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA						
CROMWELL DRY BULB 24.8		10, STATION	12, 17-29N LAT, 153-56W LONG, NOV. 10, 1964, 1400 G.C.T.					WIND SPEED 24, DIR. 08		BAR. 18	WEATHER 01	VIS.	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	25.36	34.44	4.76	0.28	22.83	503.7	0.	25.36	34.44	22.83	503.6	0.000		
9.	25.34	34.43	4.78	0.42	22.83	504.1	10.	25.34	34.43	22.83	504.2	0.051		
30.	25.34	34.43			22.83	505.0	20.	25.34	34.43	22.83	504.6	0.102		
50.	25.34	34.43			22.83	505.7	30.	25.34	34.43	22.83	505.0	0.152		
77.	23.40	34.67	5.16	0.25	23.59	434.1	50.	25.34	34.43	22.83	505.7	0.254		
102.	22.22	34.82	5.11	0.38	24.04	392.0	75.	23.57	34.65	23.52	440.3	0.373		
126.	21.51	34.96	5.02	0.37	24.34	363.9	100.	22.30	34.81	24.01	394.7	0.479		
152.	19.32	34.80	4.51	0.54	24.81	320.4	150.	19.52	34.82	24.77	323.9	0.660		
177.	16.98	34.61	4.00	0.68	25.24	279.6	200.	14.85	34.39	25.56	249.5	0.804		
192.	15.60	34.47	3.78	0.99	25.45	259.6	250.	11.10	34.23	26.18	190.6	0.915		
227.	12.57	34.22	3.96	1.12	25.99	217.5	300.	10.73	34.59	26.53	158.4	1.003		
253.	10.96	34.24	2.63	2.09	26.21	187.3	400.	9.53	34.57	26.71	142.0	1.155		
279.	10.77	34.51	1.00	2.63	26.45	164.7	500.	8.42	34.54	26.87	128.2	1.291		
304.	10.72	34.60	0.46	2.40	26.53	157.8	600.	7.30	34.49	27.00	116.4	1.415		
405.	9.45	34.56	0.38	2.82	26.72	141.5	700.	6.48	34.48	27.10	107.2	1.528		
507.	8.35	34.54	0.35	2.55	26.88	127.3	800.	5.87	34.49	27.19	99.6	1.632		
608.	7.21	34.49	0.45	2.91	27.01	115.6	1000.	4.84	34.50	27.32	87.5	1.821		
808.	5.83	34.49	0.61	3.18	27.19	99.0	1200.	3.98	34.52	27.43	76.8	1.988		
1011.	4.79	34.50	0.88	3.42	27.32	86.9								
1183.	4.01	34.52	1.05	3.40	27.43	77.1								
1406.	3.40	34.56	1.33	2.60	27.52	68.4								

CROMWELL		10, STATION		13, 19- ON LAT, 153-58W LONG, NOV. 10, 1964, 2300 G.C.T.																	
DRY BULB 25.8		WET BULB 22.5		WIND SPEED 23, DIR. 07		BAR. 18		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 5									
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.									
0.	25.38	34.56	4.79	0.34	22.91	495.6	0.	25.38	34.56	22.91	495.6	0.000									
11.	25.42	34.57	4.88	0.29	22.91	496.5	10.	25.42	34.57	22.91	496.4	0.050									
30.	25.40	34.59			22.93	495.2	20.	25.42	34.58	22.92	496.0	0.100									
50.	25.38	34.59			22.94	495.4	30.	25.40	34.59	22.93	495.2	0.150									
75.	25.36	34.59			22.94	495.8	50.	25.38	34.59	22.94	495.4	0.250									
105.	22.42	34.87	5.14	0.27	24.02	393.9	75.	25.36	34.59	22.94	495.8	0.374									
130.	21.45	34.98	4.92	0.30	24.38	361.0	100.	22.95	34.82	23.83	412.0	0.489									
155.	20.64	35.03	4.73	0.40	24.63	337.2	150.	20.80	35.03	24.59	341.5	0.679									
185.	19.42	34.96	4.39	0.80	24.90	312.5	200.	18.84	34.90	25.00	303.4	0.841									
203.	18.70	34.88	4.33	0.47	25.07	301.2	250.	15.12	34.51	25.59	248.3	0.980									
230.	16.49	34.67	4.40	1.13	25.40	265.8	300.	11.89	34.21	26.02	207.3	1.095									
255.	14.80	34.47	4.35	0.92	25.63	244.5	400.	8.24	34.12	26.57	154.7	1.278									
276.*	13.42*	34.33	4.49	0.96	25.81	227.1	500.	6.79	34.21	26.85	128.8	1.421									
283.	13.02	34.29	4.58	1.02	25.86	222.4	600.	5.93	34.31	27.04	110.6	1.542									
310.	11.22	34.17	3.91	1.51	26.11	198.3	700.	5.45	34.33	27.11	104.7	1.651									
408.	8.17	34.13	2.96	1.88	26.59	152.3	800.	4.95	34.46	27.27	89.7	1.749									
510.	6.73	34.21	1.52		26.85	128.0															
518.*	6.69	34.20	1.75	2.76	26.85	128.3															
610.	5.82	34.34		3.26	27.08	107.4															
813.	4.90	34.48	1.04	3.48	27.30	87.6															

TEMPERATURE ERROR TERM AT 100. METERS IS 0.12
 TEMPERATURE ERROR TERM AT 700. METERS IS 0.14
 SALINITY ERROR TERM AT 700. METERS IS 0.07

CROMWELL		10, STATION		14, 20-32N LAT, 153-57W LONG, NOV. 11, 1964, 0900 G.C.T.																			
DRY BULB 23.3		WET BULB 20.5		WIND SPEED 22, DIR. 07		BAR. 20		WEATHER 00		VIS.		CLOUD TYPE		COVER									
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.											
0.	24.88	34.71	4.83	0.33	23.18	470.2	0.	24.88	34.71	23.18	470.2	0.000											
10.	24.86	34.71	4.84	0.38	23.19	470.0	10.	24.86	34.71	23.19	470.0	0.047											
30. Δ	24.86	34.71			23.19	470.8	20.	24.86	34.71	23.19	470.3	0.095											
50.	24.86	34.71			23.19	471.6	30.	24.86	34.71	23.19	470.8	0.142											
77.	23.58	34.94	5.09	0.27	23.74	419.7	50.	24.86	34.71	23.19	471.6	0.237											
102.	22.29	35.00	5.00	0.32	24.16	380.9	75.	23.70	34.92	23.69	424.4	0.350											
127.	20.81	34.95	4.74	0.38	24.53	346.3	100.	22.40	35.00	24.13	383.8	0.452											
153.	19.24	34.93	4.38	0.52	24.93	309.1	150.	19.36	34.93	24.89	311.9	0.627											
155.*	19.22*	34.93	4.38	0.57	24.93	308.7	200.	16.20	34.58	25.40	265.2	0.772											
177.	17.94	34.79	4.25	0.60	25.14	288.7	250.	12.51	34.21	25.89	218.0	0.894											
192.	16.76	34.65	4.23	0.77	25.32	272.2	300.	10.28	34.14	26.26	183.7	0.996											
225.*	14.13*	34.34	3.98	1.16	25.67	239.3	400.	8.19	34.16	26.61	151.0	1.164											
227.	13.92	34.32	3.96	1.04	25.70	236.5	500.	6.77	34.16	26.81	132.1	1.307											
253.	12.40	34.20	4.08	1.15	25.91	216.4	600.	5.73	34.17	26.95	118.7	1.434											
280.	10.98	34.14	4.25	1.28	26.13	195.6	700.	5.05	34.25	27.10	105.5	1.547											
309.*	10.02	34.15	3.72	1.68	26.31	179.1	800.	4.53	34.33	27.22	94.0	1.648											
405.*	8.12	34.16	2.77	2.20	26.62	150.0	1000.	3.96	34.50	27.41	76.5	1.821											
603.*	5.70	34.17	1.16	3.34	26.96	118.4	1200.	3.42	34.54	27.50	68.6	1.968											
1012.	3.95	34.51	1.16	3.08	27.42	75.6	1500.	2.80	34.58	27.59	60.2	2.164											
1212.	3.39	34.54	1.33	2.60	27.50	68.3																	
1512.	2.78	34.58	1.68	3.05	27.59	60.1																	

TEMPERATURE ERROR TERM AT 700. METERS IS 0.11
 TEMPERATURE ERROR TERM AT 800. METERS IS 0.15

ΔFROM BT DATA
 *INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA						
CROMWELL 10, STATION 15, 22-14 LAT, 153-56W LONG, NOV. 11, 1964, 1900 G.C.T.													
DRY BULB 23.5 WET BULB 20.4 WIND SPEED 20, DIR. 10 BAR. 22 WEATHER 03 VIS. 7 CLOUD TYPE 6, COVER 7													
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.64	34.85	4.99	0.24	23.36	453.2	0.	24.64	34.85	23.36	453.2	0.000	
11.	24.67	34.84	4.91		23.34	455.2	10.	24.67	34.84	23.34	455.1	0.046	
30.	24.66	34.85			23.35	455.0	20.	24.68	34.84	23.34	455.8	0.092	
50.	24.52	34.89			23.42	448.9	30.	24.66	34.85	23.35	455.0	0.137	
75.	24.22	34.96			23.57	436.2	50.	24.52	34.89	23.42	448.9	0.229	
106.	22.87	35.20	4.85	0.20	24.14	382.4	75.	24.22	34.96	23.57	436.2	0.340	
133.	21.70	35.26	5.04	0.22	24.52	347.5	100.	23.17	35.15	24.02	393.8	0.445	
159.	20.71	35.23	4.96	0.26	24.77	324.7	150.	21.06	35.25	24.69	331.9	0.627	
186.	19.47	35.12	4.82	0.27	25.01	302.2	200.	18.59	34.98	25.13	291.6	0.785	
212.	17.86	34.85	4.63	0.42	25.21	283.7	250.	15.78	34.59	25.50	256.9	0.923	
237.	16.87	34.72	4.59	0.47	25.35	271.0	300.	12.33	34.27	25.98	210.9	1.041	
265.	14.42	34.43	5.12	0.66	25.68	239.8	400.	8.83	34.06	26.43	168.2	1.232	
291.	12.71	34.30	4.95	0.89	25.93	215.9	500.	6.51	34.10	26.80	133.1	1.384	
316.	11.76	34.23	5.01	0.88	26.06	203.8	600.	5.46	34.20	27.01	112.7	1.508	
420.	8.23	34.04	3.86	1.20	26.51	160.8	700.	4.97	34.31	27.15	99.8	1.616	
523.	6.16	34.15	1.62	2.67	26.87	126.3	800.	4.64	34.41	27.27	89.5	1.711	
627.	5.31	34.23	1.01	2.89	27.05	109.2	1000.	4.02	34.51	27.42	76.2	1.879	
834.	4.56	34.44	1.00	2.55	27.30	86.6	1200.	3.46	34.55	27.51	68.1	2.025	
1038.	3.90	34.52	1.17	3.02	27.44	74.5	1500.	2.83	34.60	27.60	59.4	2.219	
1242.	3.36	34.56	1.41	2.73	27.52	66.7							
1549.	2.75	34.60	1.70	3.02	27.61	58.5							

CROMWELL 10, STATION 16, 23-28N LAT, 153-57W LONG, NOV. 12, 1964, 0300 G.C.T.														
DRY BULB 23.0 WET BULB 21.5 WIND SPEED 19, DIR. 06 BAR. 21 WEATHER 20 VIS. 7 CLOUD TYPE 7, COVER 7														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.10	35.17	4.70	0.39	23.75	414.8	0.	24.10	35.17	23.76	414.8	0.000		
9.	24.12	35.17	4.66	0.24	23.75	415.7	10.	24.12	35.17	23.76	415.7	0.042		
50. ^Δ	24.06	35.17			23.77	415.6	20.	24.11	35.17	23.76	416.0	0.064		
75. ^Δ	24.04	35.17			23.76	416.0	30.	24.10	35.17	23.76	416.0	0.126		
100.	24.02	35.17			23.78	416.4	50.	24.06	35.17	23.77	415.6	0.209		
123.	21.87	35.20	4.84	0.28	24.44	354.6	75.	24.04	35.17	23.78	416.0	0.314		
148.	20.73	35.12	4.59	0.33	24.68	332.7	100.	24.02	35.17	23.78	416.4	0.419		
172.	19.40	35.00	4.50	0.35	24.94	308.6	150.	20.62	35.11	24.70	330.7	0.607		
186.	18.64	34.92	4.48	0.42	25.07	296.3	200.	17.83	34.83	25.20	264.1	0.762		
219.	16.58	34.69	4.44	0.59	25.39	266.1	250.	14.24	34.45	25.73	234.4	0.893		
245.	14.47	34.47	4.36	0.71	25.70	237.3	300.	12.33	34.30	26.00	208.6	1.005		
270.	13.51	34.38	4.43	0.96	25.83	225.1	400.	9.07	34.10	26.42	169.0	1.195		
294.	12.56	34.32	4.69	0.95	25.97	211.6	500.	6.92	34.06	26.72	141.2	1.352		
393.	9.26	34.11	4.31	1.25	26.40	171.2	600.	5.50	34.16	26.97	116.5	1.482		
492.	7.06	34.06	2.86	2.17	26.69	143.4	700.	4.83	34.27	27.14	100.6	1.592		
591.	5.58	34.15	1.35	2.75	26.96	118.2	800.	4.53	34.38	27.26	90.5	1.688		
790.	4.56	34.37	0.84	2.80	27.25	91.3	1000.	4.03	34.49	27.40	78.3	1.859		
987.	4.07	34.48	1.22	3.12	27.39	79.1	1200.	3.41	34.55	27.51	67.5	2.007		
1185.	3.46	34.55	1.28	3.07	27.50	68.2								
1453.	2.82	34.58	1.65	3.16	27.59	60.2								

CROMWELL 10, STATION 17, 23-30N LAT, 151-0W LONG, NOV. 12, 1964, 2300 G.C.T.														
DRY BULB 23.2		WET BULB 19.8		WIND SPEED 19, DIR. 11		BAR. 23		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH		
0.	23.73	35.24			23.92	399.3	0.	23.73	35.24	23.92	399.3	0.000		
9.	23.74	35.24			23.92	399.9	10.	23.74	35.24	23.92	400.0	0.040		
50.	23.74	35.24			23.92	401.5	20.	23.74	35.24	23.92	400.5	0.081		
75.	23.73	35.24			23.92	402.2	30.	23.75	35.24	23.92	400.9	0.121		
95.	21.22	35.19			24.60	338.5	50.	23.74	35.24	23.92	401.5	0.202		
120.	20.46	35.19			24.80	319.7	75.	23.73	35.24	23.92	402.2	0.303		
137.	19.88	35.20			24.96	304.9	100.	20.97	35.19	24.66	332.3	0.436		
165.	19.17	35.10			25.07	295.5	150.	19.55	35.17	25.03	294.5	0.555		
181.	18.65	35.02			25.14	289.2	200.	17.41	34.91	25.29	275.3	0.700		
214.	16.22	34.63			25.43	262.2	250.	13.49	34.79	25.77	230.6	0.827		
233.	14.48	34.40			25.64	242.3	300.	11.60	34.74	26.10	199.6	0.936		
261.	13.01	34.26			25.84	223.8	400.	9.08	34.10	26.42	169.5	1.122		
284.	12.10	34.26			26.02	207.1	500.	6.87	34.03	26.70	142.9	1.279		
382.	9.54	34.12			26.36	174.8	600.	5.55	34.11	26.93	120.6	1.412		
483.	7.18	34.03			26.65	147.2	700.	4.85	34.25	27.12	102.7	1.525		
575.	5.78	34.08			26.88	125.7	800.	4.50	34.39	27.27	89.5	1.622		
772.	4.60	34.36			27.24	92.4	1000.	3.94	34.50	27.42	76.1	1.790		
971.	4.01	34.49			27.40	77.5	1200.	3.45	34.56	27.51	67.3	1.935		
1170.	3.53	34.54			27.49	69.7								
1471.	2.88	34.59			27.59	60.3								

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 10, STATION 11, 21-59N LAT, 150-59W LONG, NOV. 13, 1964, 0900 G.C.T.												
DRY BULB 23.4		WET BULB 21.0		WIND SPEED 20, DIR. 09		BAR. 21		WEATHER 60		VIS.		
										CLDUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.04	35.02			23.67	423.9	0.	24.04	35.02	23.67	423.9	0.000
9.	24.12	35.03			23.65	425.8	10.	24.12	35.03	23.65	425.9	0.043
30.Δ	24.12	35.04			23.66	425.9	20.	24.14	35.04	23.65	426.2	0.086
50.Δ	24.12	35.05			23.66	425.9	30.	24.12	35.04	23.66	425.9	0.129
75.Δ	24.12	35.05			23.66	426.9	50.	24.12	35.05	23.66	425.9	0.214
100.Δ	24.02	35.01			23.72	427.9	75.	24.12	35.05	23.66	426.9	0.322
121.	27.23	35.15			24.29	369.2	100.	24.02	35.08	23.72	422.9	0.429
144.	21.52	35.18			24.51	348.9	150.	21.34	35.20	24.57	343.0	0.622
168.	20.76	35.23			24.75	326.3	200.	19.02	35.00	25.04	300.1	0.784
182.	20.24	35.19			24.86	316.4	250.	14.69	34.45	25.63	243.5	0.921
215.	17.71	34.80			25.21	281.9	300.	11.67	34.15	26.01	207.8	1.035
241.	15.27	34.51			25.56	250.2	400.	8.31	34.09	26.53	158.2	1.219
265.	13.95	34.36			25.74	231.8	500.	7.20	34.26	26.83	130.7	1.365
289.	12.26	34.19			25.93	215.4	600.	6.29	34.37	27.04	111.6	1.488
385.	8.60	34.07			26.47	163.6	700.	5.41	34.40	27.17	98.8	1.594
482.	7.34	34.23			26.79	134.7						
579.	6.68	34.37			26.99	116.5						
774.	4.75	34.37			27.23	93.5						

TEMPERATURE ERROR TEMP AT 600. METERS IS 0.14
 TEMPERATURE ERROR TEMP AT 700. METERS IS 0.11

CROMWELL 10, STATION 10, 20-28N LAT, 150-58W LONG, NOV. 13, 1964, 1900 G.C.T.												
DRY BULB 23.9		WET BULB 22.0		WIND SPEED 25, DIR. 08		BAR. 20		WEATHER 16		VIS. 6		CLOUD TYPE 6, COVER 8
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.19	35.05			23.64	426.0	0.	24.19	35.05	23.64	426.0	0.000
11.	24.18	35.05			23.65	426.1	10.	24.18	35.05	23.65	426.1	0.043
30.Δ	24.18	35.05			23.65	426.9	20.	24.18	35.05	23.65	426.4	0.086
50.Δ	24.18	35.05			23.65	427.6	30.	24.18	35.05	23.65	426.9	0.129
76.	22.97	35.12			24.05	389.8	50.	24.18	35.05	23.65	427.6	0.215
100.	21.90	35.12			24.36	361.7	75.	23.03	35.12	24.03	391.5	0.318
124.	21.30	35.22			24.60	339.5	100.	21.90	35.12	24.36	361.7	0.413
151.	19.89	35.01			24.82	319.4	150.	19.95	35.02	24.81	320.1	0.585
174.	18.65	34.89			25.04	298.3	200.	16.99	34.67	25.28	276.1	0.735
189.	17.80*	34.76			25.16	286.0	250.	12.86	34.23	25.84	222.8	0.861
222.	15.17	34.49			25.54	249.9	300.	10.33	34.11	26.22	187.4	0.964
248.	12.99	34.24			25.83	224.6	400.	7.55	34.03	26.60	151.3	1.135
274.	11.52	34.16			26.05	203.6	500.	5.74	34.07	26.87	125.0	1.274
298.	10.41	34.11			26.21	188.4	600.	5.22	34.24	27.07	106.8	1.392
395.	7.67	34.03			26.58	152.8	700.	4.78	34.36	27.21	93.8	1.493
493.	5.80	34.06			26.86	126.5	800.	4.42	34.44	27.32	84.6	1.583
591.	5.26	34.23			27.06	108.2	1000.	3.90	34.53	27.44	73.5	1.743
801.	4.47	34.44			27.32	84.5	1200.	3.41	34.56	27.52	67.0	1.885
1003.	3.89	34.53			27.45	73.4	1500.	2.77	34.60	27.61	58.4	2.076
1203.	3.40	34.56			27.52	66.9						
1504.	2.76	34.60			27.61	58.4						

CROMWELL 10, STATION 20, 18-54N LAT, 151-1W LONG, NOV. 14, 1964, 0400 G.C.T.													
DRY BULB 24.8		WET BULB 22.5		WIND SPEED 20, DIR. 14		BAR. 15		WEATHER 02		VIS. 6		CLOUD TYPE , COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PU4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.65	34.69			23.23	465.0	0.	24.65	34.69	23.23	465.0	0.000	
12.	24.70	34.70			23.23	466.2	10.	24.69	34.70	23.23	466.0	0.047	
30. ^Δ	24.78	34.71			23.21	468.5	20.	24.74	34.70	23.22	467.3	0.094	
50. ^Δ	24.78	34.72			23.22	468.6	30.	24.78	34.71	23.21	468.5	0.141	
75. ^Δ	24.52	34.81			23.36	455.6	50.	24.78	34.72	23.22	468.6	0.235	
99.	23.09	35.05			23.97	399.0	75.	24.52	34.81	23.36	455.6	0.352	
123.	21.72	35.11			24.40	358.5	100.	23.03	35.06	23.99	397.0	0.459	
148.	20.44	35.02			24.68	332.5	150.	20.41	35.03	24.70	331.0	0.643	
173.	19.85	35.10			24.90	312.7	200.	17.68	34.79	25.21	283.3	0.798	
187.	18.75	34.94			25.06	297.6	250.	12.84	34.25	25.87	220.7	0.925	
221.	15.77	34.55			25.47	258.4	300.	10.73	34.16	26.19	190.4	1.028	
247.	13.04	34.27			25.84	223.3	400.	8.31	34.16	26.59	152.8	1.201	
272.	11.69	34.18			26.03	205.2	500.	6.58	34.22	26.88	124.9	1.342	
330.	10.00	34.17			26.32	177.7	600.	5.78	34.33	27.08	107.3	1.459	
399.	8.33	34.16			26.59	153.1	700.	5.44	34.44	27.20	96.6	1.562	
538.	6.14	34.26			26.97	116.7	800.	4.99	34.48	27.29	88.3	1.655	
678.	5.54	34.42			27.17	98.7	1000.	4.21	34.52	27.41	77.6	1.823	
817.	4.92	34.49			27.30	87.2							
1030.	4.10	34.52			27.42	76.9							

ΔFROM BT DATA
 *INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 10, STATION 21, 17-30N LAT, 151-00W LONG, NOV. 14, 1964, 1400 G.C.T. DRY BULB 24.2 WET BULB 22.7 WIND SPEED 16, DIR. 13 BAR. 16 WEATHER 01 VIS. CLOUD TYPE , COVER												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	ODYN.CPTH.
0.	25.15	34.09			22.63	522.7	0.	25.15	34.09	22.63	522.7	0.000
11.	25.14	34.09			22.63	522.9	10.	25.14	34.09	22.63	522.8	0.053
30.Δ	25.14	34.09			22.63	523.6	20.	25.14	34.07	22.61	525.0	0.105
51.	25.08	34.55			23.00	489.6	30.	25.14	34.09	22.63	523.6	0.158
77.	23.09	35.01			23.94	401.0	50.	25.10	34.52	22.97	492.0	0.261
126.	20.89	35.16			24.66	331.2	75.	23.27	34.98	23.86	408.0	0.374
153.	19.67	35.09			24.95	306.9	100.	21.94	35.16	24.38	339.8	0.471
177.	18.00	34.85			25.16	285.8	150.	19.78	35.11	24.92	309.6	0.639
192.	16.64	34.65			25.35	269.5	200.	15.73	34.53	25.47	258.1	0.782
227.	12.80	34.24			25.86	220.4	250.	11.24	34.23	26.15	193.0	0.896
254.	11.04	34.24			26.20	189.7	300.	9.72	34.36	26.52	158.2	0.985
279.	10.14	34.32			26.42	167.9	400.	8.64	34.47	26.78	135.2	1.133
305.	9.64	34.37			26.54	156.5	500.	7.38	34.47	26.97	117.6	1.260
406.	8.59	34.47			26.79	134.4	600.	6.46	34.46	27.09	107.0	1.374
506.	7.30	34.47			26.98	116.8	700.	5.76	34.48	27.19	97.5	1.477
608.	6.40	34.46			27.10	106.3	800.	5.19	34.51	27.28	89.2	1.571
809.	5.15	34.51			27.29	88.6	1000.	4.37	34.53	27.39	79.3	1.742
1010.	4.34	34.53			27.40	78.9	1200.	3.73	34.56	27.48	71.0	1.894
1210.	3.70	34.56			27.49	70.6	1500.	2.93	34.60	27.59	60.5	2.094
1511.	2.91	34.60			27.60	60.2	2000.	2.14	34.64	27.70	50.3	2.376
1949.	2.19	34.64			27.69	50.9	2500.	1.82	34.66	27.74	46.9	2.623
2447.	1.85	34.66			27.73	47.2	3000.	1.62	34.68	27.77	44.5	2.857
2946.	1.66	34.68			27.76	44.9						
3943.	1.48	34.70			27.79	43.7						

CROMWELL 10, STATION 22, 15-58N LAT, 151-00W LONG, NOV. 15, 1964, 0100 G.C.T.													
DRY BULB 24.1		WET BULB 23.5		WIND SPEED 10, DIR. 13		BAR. 14		WEATHER 16		VIS. 7		CLOUD TYPE 7, COVER 9	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	ODYN.DPTH.	
0.	25.47	33.81			22.32	552.2	0.	25.47	33.81	22.32	552.2	0.000	
9.	25.43	33.81			22.33	551.4	10.	25.43	33.81	22.33	551.4	0.056	
30.Δ	25.38	33.81			22.35	550.8	20.	25.40	33.81	22.34	551.1	0.111	
50.Δ	25.32	33.84			22.39	547.6	30.	25.38	33.81	22.35	550.8	0.167	
74.	21.96	34.51			23.89	406.4	50.	25.32	33.84	22.39	547.6	0.277	
98.	18.27	34.56			24.89	310.6	75.	21.80	34.52	23.93	401.5	0.397	
124.	15.13	34.43			25.52	250.5	100.	18.01	34.55	24.95	305.0	0.486	
148.	12.60	34.34			25.98	207.2	150.	12.44	34.34	26.01	204.5	0.614	
172.	10.90	34.30			26.25	181.4	200.	9.99	34.31	26.43	164.7	0.707	
187.	10.09	34.23			26.36	171.8	250.	9.59	34.45	26.61	148.7	0.786	
221.	10.14	34.47			26.53	155.7	300.	9.18	34.48	26.70	140.9	0.859	
246.	9.65	34.45			26.60	149.6	400.	7.92	34.45	26.87	125.5	0.994	
271.	9.35	34.46			26.66	144.5	500.	6.88	34.46	27.03	111.4	1.113	
296.	9.22	34.48			26.70	141.5	600.	6.09	34.47	27.15	101.1	1.220	
393.	8.00	34.45			26.86	126.6	700.	5.44	34.49	27.24	92.2	1.318	
489.	6.98	34.46			27.02	112.7	800.	4.91	34.51	27.32	85.2	1.408	
586.	6.19	34.47			27.13	102.4	1000.	4.14	34.53	27.42	76.0	1.571	
777.	5.02	34.51			27.31	86.5	1200.	3.62	34.56	27.50	69.4	1.718	
971.	4.22	34.53			27.41	77.1							
1163.	3.77	34.56			27.48	71.1							
1455.	3.14	34.59			27.57	63.4							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

CROMWELL 10, STATION 23, 14-30N LAT, 150-57W LONG, NOV. 15, 1964, 1000 G.C.T.												
DRY BULB 24.5		WET BULB 23.0		WIND SPEED 13, DIR. 11		BAR. 14		WEATHER 03		VIS.		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	ODYN.CPTH.
0.	25.67	34.17			22.53	532.2	0.	25.67	34.17	22.53	532.2	0.000
10.	25.63	34.17			22.54	531.4	10.	25.63	34.17	22.54	531.4	0.054
30.Δ	25.62	34.17			22.55	531.9	20.	25.63	34.17	22.54	532.0	0.107
50.Δ	25.44	34.22			22.64	523.8	30.	25.62	34.17	22.55	531.9	0.161
77.	21.04	34.66			24.24	371.4	50.	25.44	34.22	22.64	523.8	0.267
102.	19.21	34.77			24.81	318.2	75.	21.40	34.63	24.12	383.4	0.361
127.	14.76	34.40			25.58	245.1	100.	19.36	34.78	24.78	321.5	0.470
153.	12.36	34.25			25.96	209.5	150.	12.56	34.26	25.92	212.6	0.605
177.	10.78	34.22			26.23	183.9	200.	9.65	34.18	26.39	168.4	0.701
191.	10.05	34.21			26.35	172.7	250.	9.20	34.36	26.61	148.8	0.781
226.	9.00	34.17			26.49	159.5	300.	8.76	34.46	26.76	135.6	0.852
253.	9.24	34.39			26.62	147.6	400.	8.03	34.55	26.93	120.1	0.981
278.	9.09	34.46			26.70	140.5	500.	7.14	34.53	27.05	109.7	1.097
304.	8.69	34.46			26.76	134.8	600.	6.43	34.52	27.14	102.2	1.204
404.	8.01	34.55			26.94	119.6	700.	5.77	34.52	27.23	94.5	1.304
505.	7.09	34.53			27.06	109.3	800.	5.19	34.53	27.30	87.5	1.396
606.	6.39	34.52			27.14	101.7	1000.	4.40	34.55	27.41	78.2	1.563
807.	5.15	34.53			27.31	87.1	1200.	3.74	34.57	27.49	70.4	1.714
1007.	4.38	34.55			27.41	77.9	1500.	3.04	34.60	27.58	61.7	1.915
1208.	3.72	34.57			27.49	70.1						
1509.	3.02	34.60			27.59	61.5						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 10, STATION 24, 13- IN LAT, 150-53W LONG, NOV. 15, 1964, 1900 G.C.T.												
DRY BULB 26.4			WET BULB 23.8		WIND SPEED 15, DIR. 08		BAR. 14		WEATHER 01		VIS. 8 CLOUD TYPE 4, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.
0.	25.89	33.62			22.05	578.3	0.	25.89	33.62	22.05	578.3	0.000
10.	25.88	33.62			22.05	578.4	10.	25.88	33.62	22.05	578.4	0.058
20. ^Δ	25.88	33.62			22.05	578.8	20.	25.88	33.62	22.05	578.8	0.117
30. ^Δ	25.88	33.62			22.05	579.2	30.	25.88	33.62	22.05	579.2	0.175
50.	22.92	34.66			23.72	420.6	50.	22.92	34.66	23.72	420.6	0.276
75.	20.94	34.91			24.46	350.7	75.	20.94	34.91	24.46	350.7	0.373
100.	15.49	34.49			25.49	253.1	100.	15.49	34.49	25.49	253.1	0.449
124.	12.82	34.26			25.87	216.7	150.	11.42	34.28	26.15	190.5	0.561
149.	11.45	34.27			26.14	191.3	200.	10.96	34.61	26.50	159.0	0.649
173.	11.10	34.44			26.34	173.2	250.	10.15	34.61	26.64	146.1	0.726
187.	11.13	34.56			26.43	165.3	300.	9.64	34.62	26.74	138.0	0.797
221.	10.55	34.62			26.58	151.6	400.	8.67	34.60	26.88	126.1	0.930
247.	10.18	34.61			26.64	146.6	500.	7.61	34.55	27.00	115.5	1.052
297.	9.67	34.62			26.73	138.4	600.	6.72	34.53	27.11	105.6	1.164
394.	8.73	34.60			26.87	126.8	700.	6.03	34.52	27.19	98.2	1.267
492.	7.69	34.55			26.99	116.3	800.	5.48	34.52	27.26	91.9	1.363
589.	6.80	34.53			27.10	106.5	1000.	4.53	34.55	27.39	79.7	1.537
787.	5.55	34.52			27.25	92.8	1200.	3.84	34.57	27.49	71.2	1.689
983.	4.60	34.55			27.39	80.5						
1179.	3.94	34.57			27.47	72.6						
1477.	3.18	34.60			27.57	63.3						

CROMWELL 10, STATION 25, 11-22N LAT, 151- 0W LONG, NOV. 16, 1964, 0500 G.C.T.																
DRY BULB 25.5			WET BULB 24.0			WIND SPEED 10, DIR. 11			BAR. 13		WEATHER 02		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.				
0.	25.68	33.77			22.23	561.3	0.	25.68	33.77	22.23	561.3	0.000				
8.	25.69	33.78			22.23	561.2	10.	25.74	33.78	22.21	563.2	0.057				
20. ^Δ	25.62	33.83			22.29	556.0	20.	25.62	33.83	22.29	556.0	0.113				
30. ^Δ	24.20	34.12			22.94	494.5	30.	24.20	34.12	22.94	494.5	0.166				
48.	17.56	34.63			25.12	287.3	50.	17.08	34.63	25.23	276.3	0.244				
75.	13.29	34.46			25.94	209.7	75.	13.29	34.46	25.94	209.7	0.305				
99.	12.02	34.64			26.32	173.2	100.	11.99	34.64	26.33	172.3	0.353				
125.	11.45	34.71			26.49	158.4	150.	11.16	34.73	26.56	152.4	0.435				
150.	11.16	34.73			26.56	152.4	200.	10.59	34.73	26.66	143.3	0.509				
175.	10.90	34.74			26.61	147.7	250.	10.12	34.72	26.73	137.5	0.580				
190.	10.72	34.74			26.64	144.9	300.	9.83	34.72	26.78	133.8	0.648				
224.	10.30	34.72			26.70	140.0	400.	9.03	34.66	26.87	127.0	0.780				
250.	10.17	34.72			26.73	137.5	500.	8.21	34.61	26.96	119.8	0.905				
276.	9.98	34.72			26.76	135.8	600.	7.22	34.57	27.07	109.6	1.020				
302.	9.82	34.72			26.78	133.7	700.	6.44	34.55	27.16	101.2	1.127				
403.	9.00	34.66			26.87	126.8	800.	5.80	34.55	27.24	94.1	1.226				
505.	8.17	34.61			26.96	119.4	1000.	4.73	34.56	27.38	81.6	1.403				
605.	7.17	34.57			27.08	109.1	1200.	3.99	34.60	27.49	71.3	1.558				
807.	5.76	34.55			27.25	93.6	1500.	3.17	34.61	27.58	62.6	1.762				
1010.	4.68	34.56			27.38	81.0										
1209.	3.96	34.60			27.49	70.9										
1510.	3.15	34.61			27.58	62.4										

CROMWELL 10, STATION 26, 10-10N LAT, 147-59W LONG, NOV. 17, 1964, 0200 G.C.T.														
DRY BULB 23.8			WET BULB 22.5		WIND SPEED 04, DIR. 33		BAR. 10		WEATHER 03		VIS. 8		CLOUD TYPE 6, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	25.44	33.75	4.60	0.38	22.29	555.7	0.	25.44	33.75	22.29	555.7	0.000		
11.	25.42	33.77	4.74	0.37	22.31	554.1	10.	25.44	33.77	22.30	555.0	0.056		
20.Δ	25.00	33.91			22.46	539.3	20.	25.00	33.81	22.46	539.3	0.111		
30.Δ	19.60	34.01			24.13	380.4	30.	19.60	34.01	24.13	380.4	0.157		
52.	14.38	34.38	3.27	1.27	25.65	236.6	50.	14.59	34.35	25.58	243.0	0.220		
78.	12.64	34.60	0.75	2.48	26.17	187.1	75.	12.70	34.58	26.15	189.4	0.275		
103.	11.66	34.70	0.37	2.73	26.44	162.4	100.	11.74	34.69	26.42	164.4	0.319		
128.	11.26	34.73	0.41	2.44	26.54	153.7	150.	10.94	34.73	26.60	148.5	0.398		
153.	10.90	34.73	0.34	2.12	26.60	147.9	200.	10.36	34.72	26.69	140.6	0.471		
177.	10.57	34.73	0.37	2.53	26.66	142.8	250.	9.93	34.71	26.76	134.9	0.540		
192.	10.43	34.72	0.44	2.79	26.68	141.5	300.	9.53	34.68	26.80	131.7	0.608		
227.	10.14	34.72	0.57	2.73	26.73	137.4	400.	8.83	34.64	26.88	125.5	0.737		
253.	9.90	34.71	0.56	3.26	26.76	134.7	500.	7.97	34.59	26.98	117.4	0.860		
279.	9.75	34.70	0.66	2.32	26.78	133.5	600.	6.94	34.55	27.10	107.0	0.973		
303.	9.50	34.68	0.53	2.75	26.81	131.4	700.	6.13	34.54	27.19	98.2	1.077		
404.	8.81	34.64	0.34	2.48	26.89	125.3	800.	5.49	34.54	27.27	90.8	1.173		
507.	7.90	34.59	0.34	2.63	26.99	116.8	1000.	4.55	34.57	27.41	78.6	1.344		
607.	6.87	34.55	0.41	3.11	27.10	106.3	1200.	3.85	34.58	27.49	70.9	1.495		
808.	5.45	34.54	0.84	3.22	27.28	90.3	1500.	3.08	34.61	27.59	61.5	1.697		
1008.	4.52	34.57	1.04	3.20	27.41	78.2	2000.	2.23	34.65	27.69	50.9	1.983		
1208.	3.83	34.58	1.43	2.84	27.49	70.7	2500.	1.89	34.67	27.74	47.2	2.232		
1509.	3.06	34.61	1.76	3.16	27.59	61.3	3000.	1.70	34.68	27.76	45.6	2.469		
2014.	2.21	34.65	2.27	3.14	27.70	50.7	4000.	1.46	34.70	27.79	43.6	2.926		
2517.	1.88	34.67	2.55	2.34	27.74	47.1								
3019.	1.69	34.68	2.90	2.76	27.76	45.6								
4009.	1.46	34.70	3.56	2.43	27.79	43.6								

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 10, STATION 27, 11-19N LAT, 147-56W LONG, NOV. 17, 1964, 1100 G.C.T.													
DRY BULB 24.3		WET BULB 23.4		WIND SPEED 12, DIR. 02		BAR. 13		WEATHER 03		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
0.	25.43	33.64	4.62	0.55	22.21	563.3	0.	25.43	33.64	22.21	563.3	0.000	
10.	25.49	33.65	4.70	0.45	22.20	564.7	10.	25.49	33.65	22.20	564.7	0.057	
20.Δ	25.48	33.65			22.20	564.8	20.	25.48	33.65	22.20	564.8	0.114	
30.Δ	25.40	33.68			22.25	560.7	30.	25.40	33.68	22.25	560.7	0.170	
50.	17.92	34.53	4.12	0.97	24.95	103.0	50.	17.92	34.53	24.95	103.0	0.257	
76.	15.60	34.48	3.80	1.03	25.46	255.5	75.	15.63	34.50	25.46	254.9	0.328	
99.	12.18	34.30	2.15	2.11	26.05	201.1	100.	12.11	34.30	26.05	199.6	0.385	
124.	11.24	34.47	1.13	2.89	26.34	172.3	150.	11.22	34.64	26.47	160.1	0.476	
150.	11.22	34.64	0.36	3.24	26.47	160.1	200.	10.59	34.69	26.62	146.9	0.553	
173.	11.00	34.68	0.30	2.74	26.55	153.8	250.	10.08	34.66	26.69	141.3	0.626	
188.	10.75	34.69	0.22	3.20	26.60	149.1	300.	9.45	34.64	26.78	133.7	0.695	
222.	10.35	34.67	0.22	3.36	26.65	144.5	400.	8.13	34.58	26.94	119.5	0.823	
248.	10.10	34.66	0.11	2.87	26.69	141.6	500.	7.14	34.52	27.04	110.7	0.939	
272.	9.83	34.65	0.20	2.86	26.73	138.3	600.	6.36	34.51	27.14	101.9	1.046	
296.	9.51	34.64	0.25	2.89	26.77	134.3	700.	5.70	34.51	27.23	94.3	1.145	
394.	8.20	34.58	0.45	2.64	26.93	120.1	800.	5.17	34.52	27.30	87.8	1.237	
494.	7.19	34.52	0.39	3.02	27.04	111.3	1000.	4.40	34.55	27.41	77.9	1.405	
591.	6.42	34.51	0.63	3.29	27.13	102.7	1200.	3.75	34.57	27.50	70.0	1.555	
788.	5.22	34.52	0.75	3.36	27.29	80.5							
985.	4.45	34.55	1.19	3.33	27.40	78.6							
1182.	3.80	34.57	1.47	3.20	27.49	70.8							
1479.	3.04	34.60	1.74	3.20	27.56	61.6							

CROMWELL 10, STATION 26, 13- ON LAT, 148- 1W LONG, NOV. 17, 1964, 2100 G.C.T.														
DRY BULB 25.5		WET BULB 23.6		WIND SPEED 12, DIR. 07		BAR. 13		WEATHER 60		VIS. 8		CLOUD TYPE 4, COVER 7		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
1.	25.71	33.72	5.40	0.44	22.17	566.4	0.	25.73	33.72	22.17	566.4	0.000		
11.Δ	25.66	33.73	5.39	0.48	22.20	564.0	10.	25.66	33.73	22.20	564.1	0.057		
30.Δ	25.66	33.73			22.20	564.8	20.	25.65	33.71	22.21	564.0	0.114		
50.Δ	25.66	33.73			22.20	565.5	30.	25.66	33.73	22.20	564.8	0.171		
75.	21.85	34.89	5.97	0.45	24.20	376.0	50.	25.66	33.73	22.20	565.5	0.284		
100.	20.40	35.01	5.53	0.48	24.68	330.5	75.	21.85	34.89	24.20	376.0	0.403		
124.	17.45	34.69	4.89	0.76	25.19	282.8	100.	20.40	35.01	24.68	330.5	0.492		
151.	13.77	34.34	3.35	1.71	25.74	230.0	150.	13.89	34.35	25.73	231.8	0.634		
174.	12.04	34.43	1.54	2.22	26.16	190.9	200.	11.02	34.56	26.45	163.4	0.733		
189.	11.27	34.50	1.46	2.36	26.36	172.2	250.	10.54	34.67	26.62	149.3	0.812		
222.	10.82	34.66	0.46	2.67	26.56	153.3	300.	9.96	34.66	26.71	140.4	0.885		
248.	10.56	34.67	0.40	2.67	26.62	148.7	400.	8.79	34.60	26.86	127.9	1.020		
273.	10.30	34.68	0.32	2.62	26.67	144.0	500.	7.73	34.56	26.99	116.5	1.143		
298.	9.98	34.66	0.27	2.80	26.71	140.7	600.	6.79	34.52	27.09	107.4	1.256		
396.	8.83	34.60	0.40	2.99	26.85	128.4	700.	5.93	34.52	27.20	97.1	1.360		
495.	7.78	34.56	0.40	3.00	26.98	117.0	800.	5.23	34.53	27.30	87.9	1.453		
592.	6.87	34.52	0.54	3.07	27.06	108.2	1000.	4.40	34.56	27.42	77.3	1.620		
787.	5.30	34.53	0.90	3.30	27.29	89.8	1200.	3.70	34.58	27.50	69.2	1.769		
984.	4.46	34.56	0.95	3.20	27.41	78.0								
1179.	3.77	34.57	1.18	3.16	27.45	70.5								
1478.	2.99	34.61	2.00	3.09	27.60	60.2								

CROMWELL 10, STATION 29, 14-28N LAT, 147-59W LONG, NOV. 18, 1964, 0500 G.C.T.														
DRY BULB 24.0		WET BULB 22.6		WIND SPEED 11, DIR. 11		BAR. 14		WEATHER 63		VIS. 4		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	25.56	33.76	5.62	0.79	22.26	558.5	0.	25.56	33.76	22.26	558.5	0.000		
10.Δ	25.64	34.14	5.69		22.52	533.9	10.	25.64	34.14	22.52	533.9	0.055		
30.Δ	25.60	34.22			22.59	527.7	20.	25.64	34.24	22.59	527.2	0.108		
50.Δ	25.50	34.28			22.67	521.2	30.	25.60	34.22	22.59	527.7	0.162		
78.	22.02	34.82	6.12	0.32	24.10	385.7	50.	25.50	34.28	22.67	521.2	0.267		
100.	20.81	34.92	5.82	0.31	24.50	347.5	75.	22.43	34.76	23.93	401.1	0.383		
125.	19.06	34.86	5.28	0.55	24.92	308.8	100.	20.81	34.92	24.50	347.5	0.478		
151.	15.11	34.43	3.55	2.89	25.53	250.9	150.	15.27	34.45	25.50	253.1	0.629		
176.	12.76	34.44	1.73	2.17	26.03	203.7	200.	11.79	34.59	26.33	175.3	0.737		
190.	12.11	34.55	1.70	2.52	26.24	183.8	250.	10.51	34.60	26.57	153.0	0.820		
223.	11.20	34.61	0.67		26.45	163.7	300.	10.19	34.66	26.67	144.2	0.895		
250.	10.51	34.60	0.67	2.58	26.57	153.0	400.	9.03	34.62	26.84	130.2	1.033		
274.	10.40	34.65	0.30	2.41	26.63	143.0	500.	7.98	34.56	26.95	120.1	1.159		
299.	10.20	34.66	0.22	2.49	26.67	144.4	600.	7.13	34.53	27.05	111.4	1.276		
398.	9.05	34.62	0.18	3.21	26.83	130.4	700.	6.24	34.52	27.16	101.1	1.384		
499.	7.99	34.56	0.41	2.93	26.95	120.2	800.	5.46	34.52	27.26	91.6	1.481		
598.	7.15	34.53	0.57	2.71	27.05	111.6	1000.	4.58	34.54	27.38	81.1	1.656		
797.	5.48	34.52	1.02	2.69	27.26	92.0	1200.	3.87	34.56	27.47	72.5	1.812		
996.	4.60	34.54		3.24	27.38	81.3								
1196.	3.89	34.56	1.38	3.07	27.47	72.8								
1494.	3.11	34.60	2.24	3.11	27.58	62.5								

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 10, STATION 30, 15-55P. LAT, 147-50W LONG, NOV. 18, 1964, 1400 G.C.T.												
DRY BULB 24.4		WET BULB 21.9		WIND SPEED 08, DIR. 07		BAR. 13		WEATHER 01		VIS.		CLOUD TYPE , COVER 2
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	25.06	33.86	4.91	0.59	22.48	536.7	0.	25.06	33.86	22.48	536.7	0.000
10.	25.10	33.86	5.03	0.32	22.47	538.2	10.	25.10	33.86	22.47	538.2	0.054
30.Δ	25.00	33.98			22.59	527.5	20.	25.00	33.90	22.51	535.2	0.108
50.Δ	24.60	34.24			22.91	498.0	30.	25.00	33.98	22.59	527.5	0.162
52.	23.70	34.60	5.18	0.59	23.45	446.6	50.	24.60	34.24	22.91	498.0	0.265
76.	21.34	34.86	5.23	0.35	24.31	364.8	75.	21.27	34.92	24.38	358.2	0.373
101.	20.60	35.22	4.42	0.30	24.79	320.5	100.	20.62	35.21	24.78	321.7	0.459
126.	18.71	34.97	4.58	0.43	25.09	292.4	150.	15.14	34.45	25.54	249.8	0.603
152.	14.82	34.41		0.56	25.56	246.3	200.	10.84	34.19	26.19	187.7	0.713
176.	12.07	34.19		1.39	25.97	209.1	250.	10.06	34.42	26.51	158.9	0.800
196.	11.01	34.18	3.29	1.69	26.16	191.3	300.	9.48	34.50	26.67	144.3	0.877
225.	10.15	34.30	2.95	2.22	26.40	168.4	400.	8.02	34.49	26.89	124.0	1.012
251.	10.06	34.42	1.23	2.58	26.51	158.6	500.	7.07	34.49	27.03	111.9	1.131
277.	9.75	34.49	0.31		26.62	148.9	600.	6.26	34.50	27.14	101.4	1.239
302.	9.46	34.50	0.63	2.69	26.67	144.0	700.	5.60	34.51	27.24	93.1	1.337
402.	7.99	34.49	0.43	2.78	26.90	123.7	800.	5.05	34.52	27.31	86.5	1.428
503.	7.05	34.49	0.55	3.24	27.03	111.7	1000.	4.24	34.54	27.42	76.9	1.593
602.	6.25	34.50	0.55	3.16	27.15	101.3	1200.	3.62	34.57	27.50	69.0	1.741
801.	5.05	34.52	0.81	3.39	27.31	86.5						
995.	4.26	34.54	1.02	3.31	27.41	77.1						
1188.	3.69	34.57	1.24	3.11	27.50	69.6						
1476.	2.94	34.60	1.58	2.86	27.59	60.3						

SALINITY ERROR TERM AT 75. METERS IS 0.05

CROMWELL 10, STATION 31, 17-10N LAT, 147-50W LONG, NOV. 18, 1964, 2400 G.C.T.												
DRY BULB 24.0		WET BULB 21.0		WIND SPEED 10, DIR. 05		BAR. 15		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	25.06	33.94	4.78	0.28	22.54	530.9	0.	25.06	33.94	22.54	530.9	0.000
10.	24.78	33.94	5.01	0.27	22.63	523.2	10.	24.78	33.94	22.63	523.2	0.053
30.Δ	24.68	33.94			22.66	521.1	20.	24.69	33.94	22.66	520.9	0.106
50.Δ	24.68	33.94			22.66	521.9	30.	24.68	33.94	22.66	521.1	0.158
76.	23.10	35.12	5.26	0.26	24.02	393.4	50.	24.68	33.94	22.66	521.9	0.263
97.	20.99	34.93	5.08	0.31	24.46	351.4	75.	23.19	35.08	23.96	398.9	0.379
128.	20.02	35.02	4.78	0.32	24.79	321.1	100.	20.87	34.94	24.50	347.9	0.473
153.	18.33	34.86	4.47	0.46	25.10	292.1	150.	18.58	34.89	25.06	295.9	0.635
177.	15.63	34.52	4.13	0.77	25.48	256.2	200.	12.85	34.26	25.87	219.5	0.765
192.	13.53	34.31	3.93	1.02	25.77	228.5	250.	10.11	34.12	26.26	181.8	0.867
227.	11.37	34.18	4.94		26.09	198.4	300.	9.87	34.44	26.55	155.4	0.952
254.	9.96	34.12	4.10	1.60	26.29	179.1	400.	8.38	34.46	26.81	131.9	1.096
279.	10.01	34.34	1.87	2.13	26.46	164.3	500.	7.16	34.44	26.98	116.8	1.222
305.	9.82	34.45	1.02	2.24	26.57	153.6	600.	6.37	34.45	27.09	106.7	1.335
406.	8.28	34.45	0.63	2.87	26.82	131.1	700.	5.74	34.47	27.19	98.0	1.438
507.	7.09	34.44	0.54	2.93	26.99	116.0	800.	5.20	34.49	27.27	90.8	1.534
608.	6.32	34.45	0.54	2.93	27.10	106.0	1000.	4.37	34.51	27.38	80.8	1.707
809.	5.16	34.49	0.88	2.88	27.27	90.2	1200.	3.68	34.55	27.48	71.2	1.861
1011.	4.33	34.51	1.03	3.02	27.38	80.3	1500.	2.91	34.59	27.59	60.9	2.062
1211.	3.65	34.55	1.19	3.08	27.49	70.7	2000.	2.15	34.63	27.68	51.4	2.348
1512.	2.88	34.59	1.54	3.02	27.59	60.6	2500.	1.80	34.66	27.74	46.8	2.598
2011.	2.14	34.63	2.24	2.13	27.69	51.3	3000.	1.61	34.68	27.77	44.5	2.831
2508.	1.40	34.66	2.72	2.40	27.74	46.7	4000.	1.45	34.69	27.79	44.1	3.284
3015.	1.61	34.68	3.00	2.30	27.77	44.4	5000.	1.40	34.71	27.81	44.3	3.740
4004.	1.45	34.69	3.57	2.73	27.79	44.1						
5000.**	1.40**	34.71	4.04	2.82	27.81	44.3						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.10

CROMWELL 10, STATION 32, 19-24N LAT, 147-50W LONG, NOV. 19, 1964, 1100 G.C.T.												
DRY BULB 23.4		WET BULB 20.9		WIND SPEED 04, DIR. 04		BAR. 14		WEATHER 00		VIS.		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	24.56	34.74	5.14	0.37	23.30	458.9	0.	24.56	34.74	23.30	458.9	0.000
9.Δ	24.57	34.73	5.12	1.61	23.29	460.2	10.	24.57	34.73	23.29	460.2	0.046
30.Δ	24.50	34.73			23.31	459.0	20.	24.54	34.73	23.29	460.1	0.093
50.Δ	24.42	34.74			23.34	456.8	30.	24.50	34.73	23.31	459.0	0.139
75.Δ	23.90	34.83			23.56	436.5	50.	24.42	34.74	23.34	456.8	0.231
101.	21.28	35.15	5.32	0.20	24.55	343.2	75.	23.90	34.83	23.56	436.5	0.344
124.	20.73	35.24	5.05	0.18	24.77	323.2	100.	21.38	35.14	24.51	346.7	0.442
151.	19.88	35.15	4.85	0.27	24.93	309.0	150.	19.92	35.16	24.92	309.5	0.608
174.	18.59	34.98	4.86	0.35	25.13	290.4	200.	16.63	34.68	25.38	267.1	0.753
188.	17.54	34.82	4.88		25.27	277.6	250.	12.74	34.21	25.85	221.8	0.876
221.	15.01	34.46	4.85	0.57	25.57	248.6	300.	9.87	34.08	26.27	181.8	0.978
247.	12.93	34.23	4.86	0.80	25.83	224.1	400.	7.38	34.12	26.69	142.3	1.142
272.	11.49	34.13	4.76	1.07	26.03	205.2	500.	5.78	34.22	26.98	114.7	1.271
296.	10.04	34.08	4.23	1.29	26.25	184.3	600.	5.16	34.30	27.12	102.1	1.381
394.	7.50	34.12	2.44	2.12	26.68	143.7	700.	4.63	34.37	27.24	91.3	1.478
473.	6.10	34.14	1.65	2.44	26.88	124.2	800.	4.44	34.48	27.35	81.5	1.566
492.	5.78	34.15	1.14	3.27	26.95	117.3	1000.	4.00	34.53	27.43	74.7	1.724
590.	5.32	34.32	0.77	3.07	27.12	102.3						
592.	5.27	34.31	0.72	2.76	27.12	102.4						
721.	4.72	34.44	0.82	3.02	27.29	87.4						
931.	4.10	34.52	1.02	2.93	27.42	76.0						
1000.**	4.00**	34.53**			27.43	74.7						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

ΔFROM BT DATA
**EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 10, STATION 33, 20-23N LAT, 147-59W LONG, NOV. 19, 1964, 1900 G.C.T.													
DRY BULB 23.2		WET BULB 20.5		WIND SPEED 11, DIR. 07		BAR. 15		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.19	34.81	5.14	0.24	23.47	443.3	0.	24.19	34.81	23.46	443.3	0.000	
9.Δ	24.31	34.89	5.31	0.27	23.45	441.3	10.	24.32	34.89	23.49	441.2	0.045	
30.Δ	24.32	34.90			23.49	441.6	20.	24.34	34.91	23.49	441.2	0.089	
50.Δ	24.26	34.91			23.52	440.0	30.	24.32	34.90	23.49	441.6	0.133	
75.Δ	24.20	34.92			23.54	438.5	50.	24.26	34.91	23.52	440.0	0.222	
101.	21.53	35.15*	5.45	0.60	24.48	349.7	75.	24.20	34.92	23.54	438.5	0.433	
127.	20.54	35.16	5.26	0.40	24.76	324.2	100.	21.64	35.14	24.44	353.3	0.433	
152.	19.52	35.06	4.85	0.38	24.95	306.6	150.	19.61	35.07	24.94	307.9	0.599	
177.	18.06	34.85	4.70	0.58	25.16	287.2	200.	18.87	34.72	25.34	270.2	0.745	
192.	17.49	34.79	4.76	0.58	25.25	278.7	250.	12.66	34.22	25.88	219.4	0.868	
223.	14.77	34.46	4.85	0.61	25.62	243.7	300.	10.39	34.09	26.20	189.5	0.971	
252.	12.52	34.21	5.00	0.96	25.90	217.9	400.	7.63	34.07	26.62	149.4	1.142	
280.	11.19	34.12	4.95	1.18	26.08	200.8	500.	6.25	34.18	26.89	123.6	1.280	
302.	10.32	34.09	4.93	1.14	26.21	188.4	600.	5.51	34.35	27.12	102.6	1.355	
402.	7.59	34.07	3.03	2.22	26.62	148.8	700.	5.03	34.43	27.24	91.8	1.493	
506.	6.21	34.17	1.23	2.60	26.91	122.3	800.	4.67	34.46	27.31	86.2	1.563	
607.	5.47	34.36	0.61	2.89	27.13	101.4	1000.	4.01	34.51	27.42	76.4	1.747	
808.	4.65	34.46	0.74	3.18	27.31	85.9	1200.	3.45	34.54	27.50	69.1	1.895	
1010.	3.98	34.51		2.60	27.42	76.0	1500.	2.76	34.59	27.60	59.2	2.090	
1212.	3.42	34.54	1.31	3.60	27.50	68.7							
1512.	2.74	34.59	1.82	2.58	27.60	58.9							

CROMWELL 10, STATION 34, 21-57N LAT, 147-59W LONG, NOV. 20, 1964, 0400 G.C.T.														
DRY BULB 23.3		WET BULB 20.0		WIND SPEED 07, DIR. 03		BAR. 14		WEATHER 02		VIS. 8		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.10	34.71	5.28	0.49	23.41	447.9	0.	24.10	34.71	23.41	447.9	0.000		
9.	24.01	34.70	5.31	0.25	23.43	446.5	10.	24.00	34.71	23.44	445.8	0.045		
30.Δ	23.86	34.88			23.51	430.1	20.	23.92	34.78	23.52	438.6	0.090		
50.Δ	23.78	35.00			23.73	419.9	30.	23.86	34.88	23.61	430.1	0.133		
74.	23.35	35.25	5.23	0.19	24.04	390.8	50.	23.78	35.00	23.73	419.9	0.219		
97.	21.78	35.23	5.44	0.22	24.47	350.4	75.	23.28	35.25	24.06	389.0	0.321		
121.	21.02	35.25	5.28	0.29	24.70	329.9	100.	21.67	35.23	24.51	347.3	0.414		
145.	19.91	35.16	4.99	0.33	24.93	308.9	150.	19.72	35.14	24.96	305.7	0.578		
169.	19.08	35.07	4.97	0.35	25.07	295.6	200.	17.97	34.89	25.22	282.6	0.726		
183.	18.62	35.01	5.12	0.31	25.14	289.2	250.	13.52	34.27	25.74	232.7	0.856		
216.	16.98	34.73	5.04	0.42	25.33	272.1	300.	10.87	34.07	26.10	199.0	0.965		
239.	14.46	34.38	5.08	1.03	25.63	243.5	400.	7.61	34.05	26.60	150.9	1.142		
263.	12.61	34.13	4.94	0.87	25.85	222.1	500.	6.22	34.13	26.86	127.1	1.282		
286.	11.50	34.10	4.83	1.04	26.00	207.9	600.	5.49	34.25	27.04	109.9	1.402		
379.	8.08	34.04	3.71	1.96	26.53	157.9	700.	5.01	34.37	27.20	95.9	1.506		
473.	6.51	34.10	1.92	2.62	26.80	132.6	800.	4.65	34.46	27.31	86.1	1.598		
566.	5.69	34.20	1.11	2.84	26.98	115.6	1000.	3.99	34.51	27.42	75.7	1.761		
753.	4.83	34.43	0.71	2.77	27.26	89.8	1200.	3.44	34.56	27.51	67.6	1.907		
940.	4.18	34.50	1.03	2.84	27.35	78.5								
1130.	3.62	34.54	1.31	2.93	27.48	70.5								
1421.	2.95	34.58	1.69	2.93	27.59	61.6								

CROMWELL 10, STATION 35, 23-27N LAT, 147-57W LONG, NOV. 20, 1964, 1400 G.C.T.														
DRY BULB 20.1		WET BULB 18.5		WIND SPEED 22, DIR. 05		BAR. 15		WEATHER 01		VIS.		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.29	35.13	5.18	0.32	23.97	395.0	0.	23.29	35.13	23.97	395.0	0.000		
10.	23.32	35.13	5.15	0.25	23.96	396.2	10.	23.32	35.13	23.96	396.2	0.040		
50.Δ	23.31	35.13			23.96	397.4	20.	23.33	35.13	23.96	396.8	0.080		
75.Δ	23.30	35.13			23.97	398.1	30.	23.33	35.13	23.96	397.2	0.120		
99.	21.74	35.24	5.31	0.17	24.49	348.7	50.	23.31	35.13	23.96	397.4	0.200		
124.	20.50	35.24	5.14	0.22	24.83	317.3	75.	23.30	35.13	23.97	398.1	0.300		
149.	19.28	35.04	4.74		25.00	302.0	100.	21.69	35.24	24.51	347.1	0.394		
173.	18.16	34.90	4.83	0.40	25.17	285.8	150.	19.23	35.03	25.01	301.3	0.557		
187.	17.65	34.83	4.88	0.44	25.25	279.4	200.	16.96	34.72	25.33	271.6	0.702		
221.	15.64	34.54	4.66	0.75	25.49	256.3	250.	13.73	34.35	25.76	230.8	0.928		
247.	13.92	34.37	4.75	0.73	25.74	233.4	300.	11.40	34.19	26.09	199.8	0.937		
271.	12.52	34.26	4.93	0.87	25.93	214.7	400.	8.84	34.06	26.43	168.1	1.122		
295.	11.56	34.20	5.01	0.99	26.07	201.9	500.	6.74	34.03	26.71	141.0	1.279		
392.	9.03	34.07	4.46	1.60	26.41	170.5	600.	5.34	34.11	26.96	117.9	1.409		
492.	6.88	34.03	2.78	2.01	26.69	143.1	700.	4.77	34.24	27.12	102.4	1.521		
588.	5.44	34.10	1.39	2.36	26.93	120.1	800.	4.55	34.36	27.24	91.8	1.619		
784.	4.60	34.35	0.72	2.97	27.23	93.2	1000.	4.07	34.49	27.37	78.7	1.791		
981.	4.12	34.48	1.03	2.98	27.38	78.6	1200.	3.57	34.55	27.49	69.9	1.942		
1175.	3.62	34.53	1.26		27.47	71.5								
1472.	2.94	34.57	1.56	3.11	27.57	62.5								

TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

ΔFROM BT DATA
*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 10, STATION 36, 25- 04 LAT, 147-53W LONG, NOV. 20, 1964, 2300 G.C.T.														
DRY BULB 21.9		WET BULB 18.2		WIND SPEED 15, DIR. 09		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	FELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	22.56	35.40	5.08	0.42	24.38	355.5	0.	22.56	35.40	24.38	355.5	0.000		
10.	22.56	35.39	5.04	0.41	24.38	356.6	10.	22.56	35.39	24.38	356.6	0.036		
50.Δ	22.52	35.38			24.38	357.7	20.	22.56	35.39	24.37	357.2	0.072		
75.Δ	22.44	35.37			24.39	357.2	30.	22.55	35.38	24.37	357.6	0.108		
99.	20.99	35.30	4.97	0.19	24.75	324.4	50.	22.52	35.39	24.38	357.7	0.180		
124.	20.47	35.27	5.10	0.20	24.86	314.4	75.	22.44	35.37	24.39	357.2	0.270		
149.	19.84	35.20	4.98	0.57	24.98	304.3	100.	20.95	35.30	24.75	323.8	0.356		
174.	18.40	34.96	4.95	0.86	25.16	287.2	150.	19.80	35.19	24.98	303.8	0.514		
188.	17.35	34.79	4.93	0.68	25.29	275.3	200.	16.55	34.67	25.39	265.9	0.657		
223.	15.10	34.50	4.99	0.55	25.58	247.7	250.	13.38	34.34	25.83	224.7	0.781		
248.	13.47	34.35	5.01		25.81	225.9	300.	11.53	34.22	26.09	200.3	0.888		
274.	12.52	34.29	5.09	0.91	25.96	212.6	400.	9.11	34.08	26.40	171.4	1.076		
298.	11.59	34.22	5.04	0.99	26.08	201.0	500.	6.66	34.02	26.72	140.8	1.233		
397.	9.19	34.08	4.69	1.49	26.39	172.4	600.	5.47	34.11	26.93	120.1	1.365		
497.	6.71	34.02	2.79	2.16	26.71	141.6	700.	4.82	34.24	27.11	103.3	1.478		
595.	5.51	34.10		2.71	26.92	121.0	800.	4.46	34.37	27.26	90.5	1.576		
792.	4.49	34.36	0.75	2.82	27.25	91.2	1000.	3.96	34.48	27.40	77.6	1.746		
991.	3.99	34.48	1.04	3.64	27.40	78.0	1200.	3.50	34.54	27.50	69.3	1.895		
1188.	3.51	34.53	1.36	3.02	27.48	70.3								
1483.	2.99	34.57	1.53	3.07	27.56	63.2								

CROMWELL		10, STATION		37, 26-30N LAT, 148- 0W LONG, NOV. 21, 1964, 0800 G.C.T.													
DRY BULB 21.9		WET BULB 19.1		WIND SPEED 27, DIR. 09		BAR. 16		WEATHER 03		VIS. 15.		CLOUD TYPE		COVER 8			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.					
0.	22.17	35.41	5.30		24.50	344.2	0.	22.17	35.41	24.50	344.2	0.000					
12.	22.21	35.41	5.32		24.49	345.7	10.	22.20	35.41	24.49	345.5	0.035					
50.Δ	22.18	35.40			24.49	347.1	20.	22.22	35.41	24.49	346.3	0.070					
75.Δ	22.10	35.39			24.51	346.6	30.	22.22	35.41	24.48	346.9	0.104					
98.	19.35	35.03	5.31		24.97	302.7	50.	22.18	35.40	24.49	347.1	0.174					
126.	18.09	34.88	5.04		25.18	284.1	75.	22.10	35.39	24.51	346.6	0.262					
156.	16.74	34.70	5.04		25.36	267.0	100.	19.22	35.01	24.99	300.7	0.343					
176.	15.68	34.58	5.04		25.52	252.9	150.	17.02	34.74	25.33	270.5	0.487					
192.	14.87	34.51	5.10		25.64	241.2	200.	14.47	34.47	25.70	236.1	0.615					
225.	13.31	34.35	5.12		25.85	222.2	250.	12.41	34.28	25.97	210.4	0.727					
252.	12.35	34.28	5.15		25.98	209.6	300.	11.32	34.23	26.14	195.5	0.830					
277.	11.64	34.24	5.14		26.09	200.0	400.	9.11	34.10	26.42	169.3	1.014					
303.	11.29	34.23	5.17	1.13	26.14	195.0	500.	6.91	34.01	26.67	144.9	1.172					
403.	9.03	34.10	4.76	2.90	26.43	168.5	600.	5.54	34.06	26.89	124.1	1.308					
508.	6.76	34.01	3.27	2.20	26.69	143.1	700.	4.79	34.17	27.06	108.2	1.426					
606.	5.44	34.07	1.79	2.76	26.90	123.0	800.	4.37	34.28	27.20	95.7	1.529					
808.	4.35	34.29	0.58		27.21	94.9	1000.	3.80	34.44	27.38	79.2	1.706					
1008.	3.78	34.44	0.81	2.97	27.39	78.8	1200.	3.31	34.52	27.49	68.9	1.856					
1205.	3.30	34.52	1.20	3.08	27.50	68.7	1500.	2.81	34.57	27.58	61.2	2.054					
1506.	2.80	34.57	1.60	3.17	27.58	61.1	2000.	2.12	34.63	27.69	51.0	2.339					
2009.	2.11	34.63	0.85	3.29	27.69	50.9	2500.	1.74	34.67	27.75	45.2	2.584					
2504.	1.74	34.67	2.47	3.69	27.75	45.2	3000.	1.56	34.68	27.77	43.7	2.811					
3004.	1.56	34.68	2.99	2.56	27.77	43.7	4000.	1.49	34.70	27.79	44.0	3.260					
4004.	1.49	34.70	3.62	2.20	27.79	44.0											

CROMWELL		10, STATION		38, 25- 24 LAT, 150-58W LONG, NOV. 22, 1964, 0400 G.C.T.											
DRY BULB 21.9		WET BULB 20.5		WIND SPEED 20, DIR. 19		BAR. 08		WEATHER 02		VIS. 6		CLOUD TYPE 6, COVER 8			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.			
0.	23.29	35.12			23.96	395.7	0.	23.29	35.12	23.96	395.7	0.000			
10.	23.33	35.11			23.94	397.9	10.	23.33	35.11	23.94	397.9	0.040			
30.Δ	23.24	35.19			24.03	390.4	20.	23.31	35.14	23.97	395.8	0.080			
50.Δ	22.90	35.32			24.22	372.4	30.	23.24	35.19	24.03	390.4	0.120			
76.	22.54	35.40			24.39	357.8	50.	22.90	35.32	24.22	372.4	0.196			
103.	21.40	35.28			24.59	339.4	75.	22.56	35.40	24.38	358.3	0.288			
126.	19.93	35.11			24.88	312.3	100.	21.64	35.30	24.56	341.9	0.377			
157.	19.28	35.11			25.05	297.0	150.	19.31	35.11	25.04	297.9	0.538			
176.	18.51	35.00			25.16	287.1	200.	17.55	34.83	25.27	277.5	0.683			
192.	18.01	34.91			25.22	282.2	250.	14.24	34.41	25.70	236.8	0.812			
227.	15.70	34.55			25.49	257.0	300.	11.73	34.18	26.02	206.8	0.924			
253.	14.06	34.40			25.73	234.2	400.	9.09	34.07	26.39	171.7	1.115			
278.	12.71	34.27			25.90	217.8	500.	6.86	34.03	26.70	142.9	1.274			
302.	11.65	34.17			26.03	205.9	600.	5.53	34.11	26.93	120.3	1.407			
403.	9.04	34.07			26.40	170.9	700.	4.79	34.23	27.11	103.9	1.520			
506.	6.74	34.03			26.71	141.4	800.	4.38	34.33	27.24	92.0	1.619			
605.	5.48	34.12			26.94	119.3	1000.	3.95	34.48	27.40	78.1	1.791			
806.	4.37	34.34			27.24	91.4	1200.	3.51	34.54	27.49	69.8	1.941			
1008.	3.94	34.48			27.40	77.7	1500.	2.91	34.57	27.57	62.3	2.142			
1209.	3.49	34.54			27.45	69.5									
1510.	2.89	34.57			27.57	62.2									

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA										
CROMWELL 10, STATION 39, 25- DRY BULB 24.5 WET BULB 22.5				IN LAT, 153-59W LONG, NOV. 22, 1964, 2000 G.C.T. WIND SPEED 22, DIR. 21 BAR. 11 WEATHER 01						VIS. 7		CLOUD TYPE 6, COVER 6						
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OY.DPTH.	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OY.DPTH.
0.	23.31	35.16	5.02		23.99	393.3	0.	23.31	35.16	23.99	393.3	0.000	0.	23.31	35.16	23.99	393.3	0.000
11.	23.29	35.16			23.99	393.2	10.	23.29	35.16	23.99	393.3	0.040	11.	23.29	35.16	23.99	393.3	0.040
77.	22.43	35.25	5.05		24.31	365.7	20.	23.27	35.17	24.01	392.1	0.079	77.	22.43	35.25	5.05		0.079
102.	21.56	35.23	4.97		24.54	344.8	30.	23.21	35.19	24.03	389.8	0.119	102.	21.56	35.23	4.97		0.119
133.	20.98	35.22	4.81		24.69	331.5	50.	22.98	35.22	24.12	382.2	0.196	133.	20.98	35.22	4.81		0.196
154.	20.22	35.18	4.80		24.86	315.6	75.	22.48	35.25	24.29	367.2	0.291	154.	20.22	35.18	4.80		0.291
178.	19.11	35.01	4.67		25.02	301.0	100.	21.63	35.23	24.52	346.4	0.381	178.	19.11	35.01	4.67		0.381
193.	18.54	34.95	4.72		25.12	292.0	150.	20.38	35.19	24.83	318.7	0.548	193.	18.54	34.95	4.72		0.548
233.	16.29	34.64	4.66		25.42	263.6	200.	18.25	34.91	25.16	288.3	0.701	233.	16.29	34.64	4.66		0.701
254.	14.40	34.44	4.80		25.69	238.3	250.	14.76	34.48	25.64	242.9	0.935	254.	14.40	34.44	4.80		0.935
280.	12.69	34.28	4.93		25.88	220.5	300.	12.01	34.21	26.00	209.4	0.949	280.	12.69	34.28	4.93		0.949
305.	11.82	34.20	4.83		26.02	206.9	400.	9.75	34.11	26.32	179.4	1.145	305.	11.82	34.20	4.83		1.145
406.	9.67	34.11	4.64		26.33	178.2	500.	7.38	34.02	26.62	150.8	1.312	406.	9.67	34.11	4.64		1.312
508.	7.20	34.02	3.30		26.64	148.6	600.	5.71	34.07	26.88	125.7	1.452	508.	7.20	34.02	3.30		1.452
608.	5.61	34.03	1.56		26.90	123.9	700.	4.85	34.18	27.06	108.1	1.570	608.	5.61	34.03	1.56		1.570
810.	4.41	34.31	0.69		27.22	94.1	800.	4.43	34.30	27.20	95.2	1.673	810.	4.41	34.31	0.69		1.673
1011.	3.89	34.48	1.02		27.41	77.1	1000.	3.91	34.47	27.40	77.8	1.848	1011.	3.89	34.48	1.02		1.848
1212.	3.42	34.54	1.29		27.50	68.7	1200.	3.45	34.54	27.50	69.0	1.996	1212.	3.42	34.54	1.29		1.996
1514.	2.81	34.58	1.60		27.59	60.5	1500.	2.84	34.58	27.59	60.8	2.194	1514.	2.81	34.58	1.60		2.194
1990.	2.14	34.63	2.09		27.69	51.2	2000.	2.13	34.63	27.69	51.0	2.478	1990.	2.14	34.63	2.09		2.478
2488.	1.78	34.66	2.51		27.74	46.4	2500.	1.77	34.66	27.74	46.3	2.726	2488.	1.78	34.66	2.51		2.726
2998.	1.53	34.69	2.74		27.78	43.2	3000.	1.56	34.69	27.78	43.3	2.955	2998.	1.53	34.69	2.74		2.955
3986.	1.49	34.70	3.48		27.79	44.0							3986.	1.49	34.70	3.48		

CROMWELL 10, STATION 40, 24-59N LAT, 157- 0W LONG, NOV. 23, 1964, 1400 G.C.T.																				
DRY BULB 23.5			WET BULB 21.8			WIND SPEED 17, DIR. 22			BAR. 13			WEATHER 02			VIS.			CLCUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	FELTA	OYN.DPTH.	DEPTH	TEMP.	SAL.	SIGMA-T	FELTA	OYN.DPTH.		
0.	22.93	35.23			24.15	377.8	0.	22.93	35.23	24.15	377.8	0.000	0.	22.93	35.23	24.15	377.8	0.000		
10.	22.94	35.23			24.15	376.5	10.	22.94	35.23	24.15	378.5	0.038	10.	22.94	35.23	24.15	378.5	0.038		
30. ^Δ	22.94	35.23			24.15	379.3	20.	22.94	35.23	24.14	379.0	0.076	30. ^Δ	22.94	35.23	24.14	379.0	0.076		
50. ^Δ	22.90	35.23			24.16	378.9	30.	22.94	35.23	24.15	379.3	0.114	50. ^Δ	22.90	35.23	24.15	379.3	0.114		
75. ^Δ	22.82	35.22			24.17	378.4	50.	22.90	35.23	24.16	378.9	0.191	75. ^Δ	22.82	35.22	24.16	378.9	0.191		
102.	20.50	35.09			24.72	327.3	75.	22.82	35.22	24.17	378.4	0.286	102.	20.50	35.09	24.72	327.3	0.286		
127.	19.94	35.05			24.83	316.9	100.	20.68	35.10	24.68	331.2	0.376	127.	19.94	35.05	24.83	316.9	0.376		
153.	18.69	34.94			25.07	295.0	150.	18.87	34.96	25.04	297.9	0.534	153.	18.69	34.94	25.07	295.0	0.534		
176.	17.11	34.75			25.31	272.4	200.	15.82	34.61	25.51	254.4	0.673	176.	17.11	34.75	25.31	272.4	0.673		
191.	16.25	34.66			25.45	260.0	250.	13.40	34.33	25.82	225.6	0.794	191.	16.25	34.66	25.45	260.0	0.794		
225.	14.69	34.48			25.66	240.6	300.	11.78	34.22	26.04	204.7	0.903	225.	14.69	34.48	25.66	240.6	0.903		
251.	13.35	34.33			25.82	225.1	400.	9.21	34.10	26.40	171.4	1.093	251.	13.35	34.33	25.82	225.1	1.093		
278.	12.71	34.32			25.94	214.1	500.	7.34	34.04	26.64	148.9	1.254	278.	12.71	34.32	25.94	214.1	1.254		
303.	11.64	34.20			26.06	203.5	600.	5.65	34.10	26.90	123.1	1.392	303.	11.64	34.20	26.06	203.5	1.392		
403.	9.16	34.10			26.41	170.6	700.	4.81	34.20	27.09	105.9	1.507	403.	9.16	34.10	26.41	170.6	1.507		
504.	7.27	34.04			26.65	148.0	800.	4.43	34.32	27.22	93.8	1.608	504.	7.27	34.04	26.65	148.0	1.608		
603.	5.61	34.10			26.91	122.4	1000.	3.87	34.46	27.39	78.5	1.783	603.	5.61	34.10	26.91	122.4	1.783		
804.	4.42	34.32			27.22	93.5	1200.	3.22	34.53	27.51	67.1	1.930	804.	4.42	34.32	27.22	93.5	1.930		
1006.	3.86	34.46			27.39	78.2	1500.	2.74	34.57	27.59	60.3	2.124	1006.	3.86	34.46	27.39	78.2	2.124		
1207.	3.20	34.53			27.51	66.8							1207.	3.20	34.53	27.51	66.8			
1506.	2.73	34.57			27.59	60.2							1506.	2.73	34.57	27.59	60.2			

CROMWELL 10, STATION 41, 23-50N LAT, 157-0W LONG, NOV. 23, 1964, 2400 G.C.T.																				
DRY BULB 25.0			WET BULB 22.6			WIND SPEED 07, DIR. 16			BAR. 15			WEATHER 02			VIS. 7			CLOUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.								
0.	23.62	35.22			23.94	397.6	0.	23.62	35.22	23.94	397.6	0.000								
10.	23.53	35.22			23.97	395.5	10.	23.53	35.22	23.97	395.5	0.040								
30.Δ	23.30	35.23			24.04	389.2	20.	23.41	35.22	24.00	392.5	0.080								
49.	23.15	35.26			24.11	383.6	30.	23.30	35.23	24.04	389.2	0.119								
74.	23.30	35.28			24.08	387.3	50.	23.15	35.26	24.11	383.7	0.197								
98.	23.19	35.33			24.15	381.6	75.	23.32	35.28	24.08	387.6	0.294								
122.	20.81	35.12			24.66	333.9	100.	23.02	35.32	24.19	377.9	0.340								
148.	19.40	35.01			24.94	307.1	150.	19.31	35.00	24.96	305.7	0.563								
171.	18.49	34.90			25.10	293.4	200.	17.03	34.74	25.33	271.7	0.708								
185.	17.90	34.84			25.19	284.4	250.	13.67	34.37	25.79	228.8	0.834								
219.	15.74	34.60			25.52	254.0	300.	11.70	34.25	26.08	201.1	0.943								
245.	13.88	34.39			25.76	231.1	400.	9.16	34.09	26.40	171.2	1.131								
269.	12.98	34.30			25.87	220.5	500.	6.69	34.03	26.72	140.4	1.288								
293.	11.93	34.26			26.05	204.2	600.	5.35	34.11	26.95	118.6	1.419								
393.	9.36	34.10			26.38	173.6	700.	4.72	34.24	27.12	102.2	1.530								
490.	6.87	34.03			26.69	142.9	800.	4.45	34.36	27.25	90.6	1.628								
587.	5.46	34.09			26.92	121.0	1000.	3.93	34.47	27.39	78.2	1.798								
783.	4.50	34.35			27.24	92.0	1200.	3.35	34.54	27.51	67.5	1.946								
979.	4.00	34.46			27.38	79.7														
1176.	3.34	34.54			27.51	67.5														
1470.	2.74	34.58			27.60	59.4														

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CPMALL 13, STATION 42, 21-57N LAT, 157-04W LONG, NOV. 24, 1964, 1000 G.C.T.													
DRY BULB 25.5		WET BULB 23.5		WIND SPEED 13, DIR. 21		BAR. 17		WEATHER 02		VIS.		CLOUD TYPE, COVER	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
0.	24.49	34.99			23.51	438.8	0.	24.49	34.99	23.51	438.8	0.000	
10.	24.48	35.00			23.52	438.2	10.	24.48	35.00	23.52	438.2	0.044	
30. ^Δ	24.38	35.02			23.55	434.7	20.	24.44	35.01	23.54	436.7	0.088	
50. ^Δ	24.26	35.04			23.62	430.6	30.	24.38	35.02	23.56	434.7	0.132	
78.	22.88	35.17			24.11	384.5	50.	24.26	35.04	23.62	430.6	0.219	
102.	21.92	35.20			24.41	356.5	75.	23.05	35.15	24.05	390.2	0.323	
127.	20.88	35.23			24.72	327.3	100.	22.00	35.20	24.39	358.7	0.417	
153.	20.08	35.14			24.87	314.9	150.	20.18	35.16	24.85	316.1	0.587	
177.	18.38	34.99			25.04	299.2	200.	17.10	34.75	25.31	273.3	0.736	
192.	17.79	34.84			25.22	282.1	250.	13.59	34.37	25.80	227.1	0.862	
226.	15.02	34.43			25.59	247.5	300.	10.67	34.17	26.21	188.5	0.966	
252.	13.47	34.36			25.82	225.3	400.	7.91	34.08	26.59	152.6	1.139	
278.	11.36	34.19			26.10	198.6	500.	6.62	34.15	26.82	131.1	1.282	
303.	10.61	34.17			26.22	187.5	600.	6.02	34.29	27.01	113.3	1.405	
403.	7.84	34.03			26.60	151.8	700.	5.53	34.39	27.15	101.0	1.513	
503.	6.60	34.15			26.83	130.5	800.	5.10	34.45	27.25	92.3	1.611	
604.	6.00	34.30			27.02	112.7	1000.	4.30	34.50	27.38	80.6	1.786	
804.	5.08	34.45			27.25	92.0	1200.	3.61	34.53	27.47	71.6	1.940	
1004.	4.29	34.50			27.38	80.5	1500.	2.91	34.57	27.57	62.4	2.144	
1202.	3.60	34.53			27.47	71.5							
1502.	2.91	34.57			27.57	62.4							

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